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No. 24] NEW DELHI, SATURDAY, JUNE 13, 1987 (JYAISTHA 23, 1909)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
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Calcutta, the 13th June 1987

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1—107 GI/87

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APPLICATION FOR PATENTS FILED AT THE HEAD
OFFICE 214, ACHARYA JAGADISH BOSE ROAD,
CALCUTTA-700017.

The dates shown in the crescent brackets are the dates
claimed under Section 135, of the Patents Act, 1970.

The 7th May, 1987

- 371/Cal/87. Institute Problem Modelirovania V Energetike
Akademii Nauk Ukrainskoi SSR. Optical Memory.
- 372/Cal/87. Institut Problem Modlirovania V Energetike
Akademii Nauk Ukrainskoi SSR. Optical Memory.
- 373/Cal/87. Pure water Technologies, Inc. Fluid Purification
system.

The 8th May, 1987

- 374/Cal/87. Institut Sverkhtrverdikh Materialov Akademii
Nauk Ukrainskoi SSR. Process for producing
diamond-containing composite material.
- 375/Cal/87. Vsesojuzny Nauchno-Issledovatel'skiy Institut Po
Krepleniju Skvazhin I Burovym Rastvoram.
Arrangement for cleaning internal surface of casing
strings.
- 376/Cal/87. Richard Arthur Halavais. A single-point locat-
ing system.

The 11th May, 1987

- 377/Cal/87. Haripada Dolai. Image Cutter.
- 378/Cal/87. Siemens Aktiengesellschaft. Electrical Contact.
- 379/Cal/87. Norton Company. Improved process for sepa-
ration of acid gases.
- 380/Cal/87. Joe Santa & Associates Pty. Ltd. Motor assem-
bly.

The 12th May, 1987

- 381/Cal/87. Krone Aktiengesellschaft. A casing, particularly
a junction-box casing for telecommunications
engineering.
- 382/Cal/87. Burlington Industries, Inc. Process for conti-
nuous dying of poly (m-phenyleneisophthalamide)
fibers.
- 383/Cal/87. Seppo Peltomaa OY. Procedure for composting
various organic wastes and composter for
implementing the procedure.

APPLICATION FOR THE PATENTS FILED AT THE
PATENT OFFICE BRANCH, MUNICIPAL MARKET
BUILDING, THIRD FLOOR, KAROL BAGH,
NEW DELHI-5

The 20th April, 1987

- 339/Del/87. Suresh Chandra Sharma and Prabhash Chandra
Johary, "Utilization of burnt first press cake as
clarificant along with milk of lime in carbonation
sugar factories".
- 340/Del/87. Lohia Machines Limited, "Scooter jack assy".
- 341/Del/87. The Lubrizol Corporation, "Phosphorus-con-
taining lubricant and functional fluid composi-
tions".
- 342/Del/87. Westinghouse Brake and Signal Company Limi-
ted, "Electric Actuators".
(Convention date 17th May, 1986 & 9th October,
1986) (U.K.).
- 343/Del/87. IMI Titanium Limited, "Titanium-Base alloys".
(Convention date 18th April, 1986) (U.K.).
- 344/Del/87. Atlas Powder Company, "Fuse tube with rein-
forcing element".

The 21st April, 1987

- 345/Del/87. The Secretary of State for Trade and Industry
in Her Britannic Majesty's Government of the
United Kingdom of Great Britain and Northern
Ireland, "Vehicle suspension system".
(Convention date 24th April, 1986, U.K.).
- 346/Del/87. W.R. Grace & Co., "Method for treating caustic-
refined glyceride oils for removal of soaps and
phospholipids".
- 347/Del/87. Farreel Bridge Limited, "Control for batch
Mixers". (Convention date 26th April, 1986,
U.K.).
- 348/Del/87. Westinghouse Brake and Signal Company Limi-
ted, "Force Actuators" (Convention date 17th
May, 1986 and 12th December, 1986, U.K.).
- 349/Del/87. Societe Europeenne De Propulsion, "Friction-
less valve".

The 22nd April, 1987

- 350/Del/87. The Lubrizol Corporation, "Norbonyl dimer
ester and polyester additives for lubricants and
fuels".
- 351/Del/87. Caoutchouc Manufacture Et Plastiques, "Im-
provements in multilayered composite structures
of compact and cellular elastomers for sound and
heat insulation purposes".
- 352/Del/87. The Lubrizol Corporation, "Water tolerance
fixes in functional fluids and lubricants".
- 353/Del/87. Etablissements Pierris Delamare ET CIE, "A
device for holding objects and protecting them
against shocks".

The 23rd April, 1987

- 354/Del/87. Associated Electronics Research Foundation,
"Improvements in or relating to VHF Mechanical
tuner".
- 355/Del/87. Karm Home Appliances Private Limited, "Float-
ing immersion heating element".
- 356/Del/87. Janus Bua S.P.A. "A suspension for motored
and unmotored wheels vehicles".
- 357/Del/87. The Lubrizol Corporation, "An additive Con-
centrate and Lubricant Composition".
[Divisional date 15th June, 1984].
- 358/Del/87. Union Carbide Corporation, "A rapid pressure
swing adsorption process".
[Divisional date 26th September, 1984].
- 359/Del/87. Janus Bus S.p.A., "A network structure for a
bus chassis, particularly suitable for airport service
buses".

The 24th April, 1987

- 360/Del/87. Viradan A/S, "A method of providing cylindri-
cal workpieces with a coating of a highly viscid
material and a cross head extruder for use there-
with.
- 361/Del/87. UOP INC., "Catalytic composition for the Iso-
merization of paraffinic hydrocarbons".

APPLICATIONS FOR PATENTS FILED IN THE PATENT
BRANCH AT TODI ESTATES, THIRD FLOOR, SUN MILL
COMPOUND, LOWER PAREL (WEST), BOMBAY-13.

The 25th March, 1987

- 101/BOM/87. Miss I. B. Javeri and P. J. Parekh. An im-
proved dropper or medicaments such as eye drops
or the like.
- 102/BOM/87. J. C. Shah. A panipuri substitute edible con-
tainer and the process for manufacturing the
same.

103/BOM/87. N.M. Bhandari. A process for preparation of polygalactomannan gels.

104/BOM/87. V.C. Shah. A multi-filament electric lamp with slide-button arrangement.

105/BOM/87. K.H. Kodadwalla. A locking device.

The 26th March, 1987

106/BOM/87. K.R. Dholaria. An automatic cradle.

107/BOM/87. G. Kaushik. Improved pilfer resistant sheath for a closure fitted with a dropper nozzle on a bottle or the like container.

The 27th March, 1987

108/BOM/87. D.S. Deshpande. Crash Barriers or Railings for highways.

109/BOM/87. S.B. Antoorkar. Improved fall prevention device.

The 30th March, 1987

110/BOM/87. K.R. Dolaria. A modified air cooler.

111/BOM/87. P.J. Patel. New device of neck closer of bottle for measuring and handling liquid.

The 31st March, 1987

112/BOM/87. P.D. Kuttan & J.Narakat. A process for treating tobacco or like plant material to increase its filling capacity by way of reducing its bulk density and the product obtained thereby.

113/BOM/87. Omni Graphics Pvt. Ltd. Improvements in or relating to the high definition conversion process to convert continuous tone photographs to very highly defined sophisticated line renditions.

114/BOM/87. G.D. Vernekar. Flat Binoculars.

115/BOM/87. Oy Nokia AB. Alternate reverse twisting method and apparatus both alternately reverse twisted product.

116/BOM/87. R.S. Kher. Electronic Recorded Calendar lock (Electronic RC Lock).

The 1st April, 1987

117/BOM/87. A.K. Patil. Biogas inlet connection for dual engine.

The 3rd April, 1987

118/BOM/87. R.A. Methe Continuous milk measurer-cum-dispenser.

119/BOM/87. K.D. Kanjibhai. Kavaia Auto speedable machine for multipurpose.

120/BOM/87. K.D. Kanjibhai. Auto stop chapaty and Dhosa Machine.

121/BOM/87. Larsen & Toubro Ltd. An improved pair of baffles for use in shell and tube heat exchanger.

122/BOM/87. M. Desai & Anjona Desai Akin Shah. A jet pump that operates without electric or fuel power.

The 8th April, 1987

123/BOM/87. M.M. Sasi. A toy.

The 10th April, 1987

124/BOM/87. K.R. Dholaria. A modified air cooler.

125/BOM/87. Hoechst India Ltd. Chemotherapeutically active quinoxaline derivatives.

126/BOM/87. Walchandnagar Industries Limited. An improved sugar cane mill roller and a sugar cane mill having the same.

127/BOM/87. Walchandnagar Industries Limited. An improved sugarcane mill roller, a method of manufacturing the same and a sugarcane mill having the same.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 27th April, 1987

302/Mas/87. STAMICARBON B.V., Process of preparing virtually cadmium-free calcium sulphate and calcium sulphate prepared according to this process.

303/Mas/87. GENE WYLIE ADAMS AND JOHN WILLIAM BROSNAN, High Resolution Imaging Doppler Interferometer.

The 28th April, 1987

304/Mas/87. JAMES EVEN JORDE. Chain Saw Sharpener.

305/Mas/87. A AHLSTROM CORPORATION. Fluidized bed reactor.

306/Mas/87. STAMICARBON B.V., "Method for the Removal of Cadmium from Acid Phosphate-Containing Aqueous Media".

The 29th April, 1987

307/Mas/87. HONDA GIKEN KOGYO KABUSHIKI KAISHA. Motorcycle Muffler.

The 30th April, 1987

308/Mas/87. S. J. MURALIDHARAN. Egg Boxes in Plastics by Vacuum Forming Process.

309/Mas/87. M. K. ELECTRIC LIMITED. "Plug Socket".

310/Mas/87. M. K. ELECTRIC LIMITED. "Terminals".

311/Mas/87. M. K. ELECTRIC LIMITED. "Plug Socket".

The 1st May, 1987

312/Mas/87. FOSCO INTERNATIONAL LIMITED. Casting of Metals. (May 22nd, 1986, Great Britain).

313/Mas/87. VIEW-MASTER IDEAL GROUP, INC. Improved stereoscopic viewer.

314/Mas/87. FIVES-CAIL BABCOCK. Machine for Unloading Barges of shallow vessels handling bulk Material and installation using such a Machine.

315/Mas/87. RHONE-POULENC CHIMIE. "Process for Producing and Emulsifying Composition and inverse Emulsions Containing lit".

316/Mas/87. DONN CASEY. Surgical Clip. (May 15th, 1986, Great Britain).

ALTERATION OF DATE

155893. Ante dated to 6th May, 1981.

(92/Del/85)

159905. Ante dated to 17th November, 1980.

(669/Del/83)

159906. Ante dated to 17th November, 1980.

(670/Del/83)

COMPLETE SPECIFICATION, ACCEPTED

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CLASS : 34-A; 172-D₄ & F.

159841

Int. Cl. : C 03 b 37/00.

APPARATUS FOR THE PRODUCTION OF FIBRES FROM A THERMOPLASTIC MATERIAL SUCH AS GLASS.

Applicant : ISOVER SAINT-GOBAIN, 18 AVENUE D'ALSACE, 92400 COURBEVOIE, FRANCE.

Inventors : 1. JEAN BATTIGELLI, 2. MARIE PIERRE BARTHE, 3. FRANCOIS BOUQUET.

Application No. 381/Cal/83 filed March 30, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Apparatus for the production of fibres from a thermoplastic material such as glass, comprising a spinner (10) rotating about an axis (22) which is substantially vertical, and having a diameter between 550 and 1500 mm, means to rotatably drive the said spinner, means to conduct a stream (24) of molten material in an attenuable state into the spinner and to conduct it onto the inside surface of the peripheral wall of the said spinner, a plurality of orifices (40) in the peripheral wall through which the molten material passes in the form of filaments (41), and means to attenuate the said filaments (41) into fibres, these means comprising an internal combustion burner which delivers an annular blast adjacent to the external portion of the said peripheral wall and directed downwards, the said annular blast being at a temperature which is sufficiently high to maintain the filaments of the material in a condition which permits them to be attenuated for a time sufficient for attenuation.

Compl. Specn. 29 pages.

Drgs. 4 sheets.

CLASS : 128-G.

159842

Int. Cl. : A 61 b 17/34.

DEVICE FOR REVERSIBLY OCCLUDING A BODY DUCT.

Applicant : BIVONA INC., OF 5700 WEST 23RD STREET, GARY, INDIAN 46406, UNITED STATES OF AMERICA.

Inventors : 1. DR. LOURENS J. D. ZANEVELD, 2. JAMES W. P. BURNS.

Application No. 421/Cal/83 filed on April 12, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A device for occluding a body duct, comprising two plugs of cross sectional size sufficient to block the lumen of said duct when positioned therein, and flexible connecting means inter-connecting said plugs to limit the axial spacing between said plugs.

Compl. Specn. 17 pages.

Drgs. 2 sheets.

CLASS : 131-B₃.

159843

Int. Cl. : E 21 b 43/11.

A FIRING APPARATUS FOR USE WITH WELL PERFORATING SYSTEM.

Applicant : SCHLUMBERGER TECHNOLOGY CORPORATION, AT 277 PARK AVENUE, NEW YORK, NEW YORK, 10172, U. S. A.

Inventor : 1. JAMES MICHAEL UPCHURCH.

Application No. 444/Cal/83 filed on April 16, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

10 Claims

A firing apparatus for use with a well perforating system including a packer for isolating an interval of a well bore; a pipe string associated with the packer for establishing fluid communication between the isolated interval and the well surface; and a performing device, including a detonator, suspended below the packer and adapted when fired to perforate the well in the isolated interval; comprising :

a housing adapted to be associated with the perforating service;

a firing element mounted within the housing for firing the detonator; and

a locking mechanism mounted relative to the housing for movement from a first position in which operation of the firing element is inhibited to a second position in which operation of the firing element is permitted;

means for moving the locking mechanism from the first to the second position in response to a first predetermined pressure difference, and

means for operating the firing element in response to a second predetermined pressure difference.

Compl. Specn. 19 pages.

Drgs. 4 sheets.

CLASS : 85-G.

159844

Int. Cl. : F 27 b 15/00.

"FLUIDIZED BED BOILERS".

Applicant : DORR-OLIVER INCORPORATED, 77 HAVEMEYER LANE, STAMFORD, CONNECTICUT 06904, U.S.A.

Inventors : 1. ALBERT MARTIN LEON,
2. DANIEL EUGENE McCOY.

Application No. 518/Cal/83 filed April 28, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A fluidized bed boiler comprising a housing, a reaction chamber within said housing, an air distributor or grate in the lower portion of said reaction chamber comprising a plurality of spaced sparge pipes, a fluidized bed region immediately above said grate which, in operation, contains a bed of solid particulate material, feed means for supplying solid particulate matter to said fluidized bed region, a freeboard region extending upward from said fluidized bed region to the top of said housing, a convection heat exchange chamber in horizontal communication with said freeboard region, a horizontally oriented steam drum extending through said freeboard region at the top thereof into the top of said convection heat exchange chamber, a horizontally oriented water drum extending across the bottom of said convection chamber, at least one water header below said grate in the reaction chamber, water-cooled walls being provided in said reaction chamber and said convection heat exchange chamber by tube and web panels, the vertically oriented tubes of said panels joining the water header or headers of said reaction chamber to said steam drum, convection bank tubes joining said water drum to said steam drum in said convection heat exchange chamber, a plurality of vertically oriented heat exchange tubes connected at the lower end thereof to said water header passing through said grate between adjacent sparge pipes thereof and upwards into and through said fluidized bed region, and said freeboard region to terminate in said steam drum, said heat exchange tubes being distributed in said combustion chamber so as to form a central firing aisle clear of heat exchanger tubes into which said feed means may introduce solid particulate fuel and other particulate feed, said sparge pipes being removably mounted in said housing passing through said water-cooled walls, the tubes of said water-cooled wall in the region of penetration of said sparge pipes being splayed and of decreased diameter to accommodate passage of said sparge pipes, an air header located externally of said housing and connected to said sparge pipes, a plurality of air ports along the length of said sparge pipes for introduction of fluidizing air to fluidize the bed of particulate matter above said grate in said fluidized bed region, individually operable control means for each sparge pipe to open or close said sparge pipe to air flow, an exhaust stack communicating with said convection heat exchange chamber for exhausting combustion gases which have traversed said convection heat exchange chamber and an ash removal means communicating with said reaction chamber.

Compl. Specn. 11 pages.

Drg. 5 sheets.

CLASS : 70-A; 130-D.

159845

Int. Cl. : B 01 k 3/00;

C 22 d 3/02.

"DETACHABLE ARRANGEMENT FOR SPOT FEEDING ALUMINA TO AN ELECTROLYTIC TANK FOR THE PRODUCTION OF ALUMINIUM".

Applicant : ALUMINIUM PECHINEY, OF 23, RUE BALZAC, 75008 PARIS, FRANCE.

Inventors : 1. JEAN-LOUIS GERPHAGNON, 2. CLAUDE WOLTER.

Application No. 524/Cal/83 filed April 29, 1983.

Appropriate office for the opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A detachable device for spot feeding alumina into a tank for producing aluminium by electrolysis of alumina dissolved

in molten cryolite, comprising a fixed metal hopper supported by horizontal metal girders forming the superstructure of the tank, a means for making a hole in the crust of solidified electrolyte, which covers the surface of the tank in normal operation, and a means for feeding controlled doses of alumina into the hole, characterised in that the fixed hopper is integral with the horizontal metal girders which form at least part of its side walls, that is equipped with a bottom aperture for discharge of the alumina and has an impervious metal case, that the upper part of the case is open and comes substantially to the level of the upper part of the hopper, and that the lower part of the case has two substantially parallel branches, the first branch discharging outside the hopper, and the second branch discharging, in its bottom portion, inside the hopper, in the immediate vicinity and on the axis of the aperture for the discharge of alumina.

Compl. Specn. 12 pages.

Drg. 2 sheets.

CLASS : 14-C.

159846

Int. Cl. : H 01 m 1/00.

"IN AND FOR THE MANUFACTURE OF STORAGE BATTERIES HAVING BATTERY CELL ELEMENTS, THE METHOD AND APPARATUS FOR CASTING THE METAL STRAPS ON LUGS OF BATTERY CELL ELEMENTS".

Applicant : GNB BATTERIES INC., OF 1110 HIGHWAY 110 MENDOTA HEIGHTS, MINNESOTA 55118, UNITED STATES OF AMERICA.

Inventors : 1. ALBY H. WOLF,

2. THOMAS LESTER OSWALD.

Application No. 539/Cal/83 filed May 3, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

25 Claims

In and for the manufacture of storage batteries having battery cell elements, a method for assembling the cell elements which comprise a plurality of lead grids and grouped as alternative positive and negative plates and then to secure and couple the assembly of plates by casting straps of lead or lead alloy on to the respective groups of lugs for the positive and negative plates characterized in that the method of casting the said metal straps on lugs of battery cell elements consists in having a mold body defining a cavity section, conducting electrical current through said mold body for substantially uniformly heating said mold body to a predetermined temperature above the melting point of the material to be cast, introducing the material to be cast into said mold cavity at about said predetermined temperature, cooling said mold body to a temperature below the solidification temperature of the material, and removing the casting from the mold cavity following said cooling.

Compl. Specn. 68 pages.

Drg 8 sheets.

CLASS : 14-C.

159847

Int. Cl. : H 01 m 1/00.

"APPARATUS AND METHOD FOR CASTING STRAPS ON BATTERY CELL ELEMENTS.

Applicant : GNB BATTERIES INC., OF 1110 HIGHWAY 110 MENDOTA HEIGHTS, MINNESOTA 55118, UNITED STATES OF AMERICA.

Inventors : 1. EDWARD GUY SCHAUMBURG, 2. CORY DALE BENSON, 3. ALBY HENRY WOLF, 4. MICHAEL GERARD ZAIS.

Application No. 540/Cal/83 filed May 3, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

66 Claims

An apparatus for casting straps on to rows of lugs of battery cell elements comprising an indexable table having at least one station which carries an element holding head and a mould having lug strap cavities; said holding head having means for releasably engaging an element; means for moving each said table station head between an element receiving raised position with lugs of an element held therein removed from the mould of the respective table station to a lowered casting position with the lugs of an element carried therein disposed in the said mould; means for rotatably indexing said table to successively and simultaneously move said plurality of table stations about the respective operating stations on the periphery of the said table; a molten metal pouring station having means for successively dispensing a determined amount of molten metal into said moulds upon indexing of the table stations to the said pouring station and an unloading station having means whereby elements with lug straps cast thereon permit removal from table station heads upon indexing of a table station said unloading station.

Compl. Specn. 80 pages.

Drg. 8 sheets.

CLASS : 119-C & F₉ 7. 159848

Int. Cl. : D 03 d 37/00.

"A CIRCULAR LOOM HAVING A SHED-FORMING DEVICE".

Applicant : INDUPACK AG, OF GARTENSTRASSE 2, ZUG, SWITZERLAND.

Inventor : 1. GOETZ PETSCHNER.

Application No. 567/Cal/83 filed May 6, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A circular loom having a shed-forming device comprising a plurality of partial healds arranged in at least one substantially circular row and operable by heald actuating members, wherein at least one cam is mounted on the main shaft of the loom is rotatable with the latter and is operatively connected to the heald actuating members by means of a plurality of rockable levers disposed radially about the cam and having follower means engaged with the cam.

Compl. Specn. 9 pages.

Drg. 3 sheets.

CLASS : 27-L. 159849

Int. Cl. : E 04 c 3/20.

"REINFORCED CONCRETE PILES".

Applicant : AMITAVA GHOSH DASTIDAR, OF 5 HUNGERFORD COURT, 12/1, HUNGERFORD STREET, CALCUTTA-700 017.

Inventor : WEST BENGAL, INDIA.

Application No. 591/Cal/83 filed May 10, 1983.

Complete Specification left on August 10, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

22 Claims

A reinforced concrete pile, for use as driven precast pile, or precast pile in bored hole, comprising a plurality of precast pile sections having integral jointing means at one or both end(s), the length and cross-section of each of the pile sections and the number of the pile sections being selected according to the nature and requirement of the piling technique adopted, said pile sections being jointed to each other to define a continuous pile shaft and the said jointing means being constituted by a male joint member and a fe-

male joint member, the male joint member being cap-shaped with a disc surface and a skirting portion, the skirting wall of the male joint member having uniformly distributed holes in same or different vertical planes and tubular components being securedly provided within the said holes to cross each other to define locating points for reinforcements of the pile sections, while the female joint member is in the form of a cylinder or open ended box with a disc securedly fitted therewithin about half-way from the end to define two cap-shaped portions, the upper being so dimensioned as to constitute a receptacle for the said male joint member, the skirting wall of the upper cap-shaped portion of the female joint member being provided with uniformly distributed holes in same or different vertical planes, and the said holes of the male joint member and those of the female joint member being of equal or unequal diameter, and are eccentrically aligned in relation to each other in vertical plane such as to constitute a precompressed joint by insertion of locking pins through the said holes on applying impact force, in assembly of the pile sections.

Prov. Specn. 14 pages.

Drg. 1 sheet.

Compl. Specn. 21 pages.

Drg. Nil.

CLASS : 98-I 159850

Int. Cl. F 24 j 3/02.

SOLAR COLLECTOR.

Applicant & Inventor : GARRETT MICHAEL SAINSBURY, OF 10 WARATAH AVENUE, DALKEITH, IN THE STATE OF WESTERN AUSTRALIA, COMMONWEALTH OF AUSTRALIA.

Application No. 613/Cal/83 filed May 17, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A solar collector comprising a substantially hemi-spherical reflective concave surface; a caustical conical concentrator located at the focus of the surface and having a concentrated second focus for radiation reflected onto its surface from said hemisphere, a heat exchanger located at the second focus, said caustical conical concentrator being mounted to rotate about a substantially North-South axis passing through said second focus and being driven by a drive such that with movement of the sun, incident solar radiation is constantly directed to said second focus.

Compl. specn. 19 pages.

Drgs. 6 sheets

CLASS : 72 B 159851

Int. Cl. : C 06 b 1/00.

CONTINUOUS PROCESS FOR THE PRODUCTION OF SYRUPY EXPLOSIVE COMPOSITIONS.

Applicant : PRB NOBEL EXPLOSIFS OF 12 AVENUE DE BROQUEVILLE, B-1150 BRUXELLES, BELGIUM, A COMPANY ORGANISED UNDER THE LAWS OF BELGIUM.

Inventor : LUCIEN WATERLOT.

Application for patent no. 18/Del/83 filed on 12th January, 1983.

Appropriate office for opposition proceedings (Rules 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

7 Claims

Continuous process for the production of syrupy explosive compositions which can be put in cartridges, characterised in that an oxidising solution which is prepared hot and containing conventional inorganic or organic salts dissolved in water, said oxidising solution is mixed with a reducing premix consisting of solid fuels based on metal fuels and of a hardener of the carboxymethylcellulose type introduced in solid form prior to the final solidification of the composition, the mixture then being put in cartridges using a cutting machine.

Compl. specn. 15 pages.

CLASS : 24 D, E, F

159852

Int. Cl. : F 16 d, 49/00, 51/00 & B 60 t, 1/00.

WEDGE ACTUATED DRUM BRAKE ASSEMBLY.

Applicant : THE BENDIX CORPORATION, OF BENDIX CENTER, SOUTHFIELD, MICHIGAN 48037, U.S.A., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE.

Inventor : OTT WILLIAM EDWARD & KRIEG EDWIN ADOLPH.

Application for patent no. 22/Del/83 filed on 14th January, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delh-110005.

8 Claims

Wedge actuated drum brake assembly (10) comprising a drum (12) mounted for rotation with a member to be braked, a fixed support (14) non-rotatably mounted adjacent said drum (10), a pair of friction elements (18, 20) slidably mounted on said fixed support (14) presenting opposite pairs of contiguous ends (24, 26, 28, 30) and an actuator assembly (32) between at least one of said pairs of contiguous ends (24, 26, 28, 30) of said friction elements (18, 20) for urging the latter into braking engagement with said drum (12) when a brake application is effected, said actuator assembly (32) including a housing (40) mounted on said fixed support (14), a pair of pistons (50, 52) slidable in said housing, each of said pistons (50, 52) being operably connected to a corresponding one of said drum (12), a force transmitting assembly (90) movable relative to said housing (40) and including a force transmitting member (92) and a camming member (102) slidable on said force transmitting member (92), said force transmitting assembly (90) being movable between brake applied and brake released conditions for forcing said pistons (50, 52) toward and away from positions urging said friction elements (18, 20) against said drum when a brake application is effected, and resilient means (118, 122) yieldably urging said force transmitting assembly (90) toward the brake released condition, characterized in that said resilient means (118, 122) includes compression spring (122) carried between said force transmitting member (92) and said camming member (102) for urging the latter toward a shoulder defined on said force transmitting member (92), said compression spring (122) being movable with said force transmitting assembly (90), said force transmitting assembly being connected to an activating means (84) whereby said force transmitting assembly is moved when a brake application is effected, and an extension spring (118) between the force transmitting assembly and the wall of said housing for extending or elongating from its relaxed condition as the brake is applied so that the camming member (102) and therefore the force transmitting member (92) are returned to the brake released position as said extension spring (118) return from its extended condition to its relaxed condition the forces generated on said camming member (102) by extension of said extension spring (118) being counterbalanced by the forces exerted on said camming member (102) by said compression spring during initial movement of said force transmitting member (92), the force of said compression spring (122) overcoming the force of said extension spring (118) when clearance between said pistons (50, 52) and the camming member (102) is taken up upon initial movement of said force transmitting assembly (90).

Compl. specn. 12 pages.

Drgs. 2 sheets

CLASS : 32 F, 2(a) & 3(a)

159853

Int. Cl. : C 07 c 27/00.

A PROCESS FOR THE MANUFACTURE OF BENZYL ETHER DERIVATIVES OF PENTITES.

Applicant : SCHERING AKTIENGESELLSCHAFT, A BODY CORPORATE ORGANISED ACCORDING TO THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY, OF BERLIN AND BERGKAMEN, FEDERAL REPUBLIC OF GERMANY.

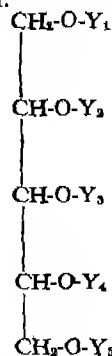
Inventors : HANS RUDOLF KRUGER, HANSJORG KRANMER, REINHOLD PUTTNER & ERNST ALBRECHT PLEROH.

Application for patent no. 107/Del/83 filed on 17th February, 1983.

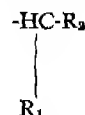
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delh-110005.

6 Claims

A process for the manufacture of a compound of the general formula I.

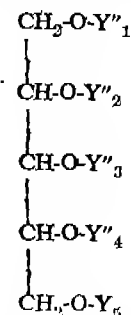


in which one of the five symbols Y_1 , Y_2 , Y_3 , Y_4 and Y_5 represents a group of the formula

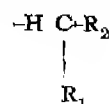


and each of the other four symbols represents a hydrogen atom, and in which

R_1 represents a hydrogen atom or a C_1 - C_4 -alkyl group and R_2 represents an aromatic hydrocarbon group which may be substituted by one or more substituents selected from C_1 - C_6 -alkyl groups, C_1 - C_6 -alkoxy groups, diethylmethylene groups, unsubstituted and substituted phenoxy groups, unsubstituted and substituted phenyl group, halogen atoms, nitro groups, cyano groups comprising hydrolysing in any conventional manner, and trifluoromethyl groups, a compound of the general formula VI.

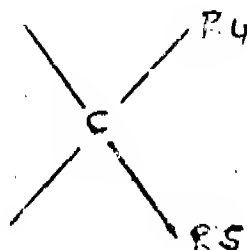


in which one of the five symbols Y''_1 , Y''_2 , Y''_3 , Y''_4 and Y''_5 represents a group of the formula



in which R_1 and R_2 have the meanings given above, two

of the symbols together represent an optionally substituted methylene group of the formula VII.



in which R_4 and R_5 each represents a hydrogen atom, an unsubstituted or substituted C_1-C_{10} alkyl group, a C_3-C_8 -cycloaliphatic hydrocarbon group, an unsubstituted aromatic hydrocarbon group or an aromatic hydrocarbon group substituted by one or more substituents selected from C_1-C_6 -alkyl groups, halogen atoms, C_1-C_6 -alkoxy groups, nitro groups and trifluoromethyl groups, or R_4 together represent a polymethylene group of the formula $(CH_2)_m$, in which m represents 4 or 5, and the other two symbols together represent an optionally substituted methylene group of the formula VIII

in which R_6 and R_7 each represents a hydrogen atom, an unsubstituted or substituted C_1-C_{10} alkyl group, a C_3-C_8 -cycloaliphatic hydrocarbon group, an unsubstituted aromatic hydrocarbon group or an aromatic hydrocarbon group substituted by one or more substituents selected from C_1-C_6 -alkyl groups, halogen atoms, C_1-C_6 -alkoxy group, nitro groups and trifluoromethyl groups, or R_6 and R_7 together represent a polymethylene group of the formula $-(CH_2)_r-$, in which r represents 4 or 5.

Compl. specn. 4 pages.

Drg. 1 sheet

CLASS : 23 E

159854

Int. Cl. : B31d—3/04 & B65d—65/38.

A PEEL OFF PACKAGE.

Applicant : SHRI ISHWAR PRAKASH AGRAWAL, AN INDIAN NATIONAL OF MOHALLA DALALGANJ, DIST. SHAHJAHANPUR, U.P., INDIA.

Inventor : ISHWAR PRAKASH AGRAWAL.

Application for Patent No. 116/Del/1983 filed on 23rd February, 1983.

Additional to case No. 36/Del/1984 filed on 11th January, 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A peel off package comprising an upper sheet held to a lower or base sheet, one of said sheets having a sealing surface consisting of low density polyethylene, the other of said sheet having a sealing surface consisting of high molecular high density polyethylen, said sheets being heat sealed to each other along its edges or in the proximity thereof, an opening provided for the product to be introduced into the package, the said opening being heat sealed after introduction of the product away from the edge so as to define a flap portion.

Complete specification 8 pages.

CLASS : 32 f 2(b) & 32G

159855.

Int. Cl. C07d 91/00.

PROCESS FOR THE PREPARATION OF BIOTIN.

Applicant : PFIZER INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

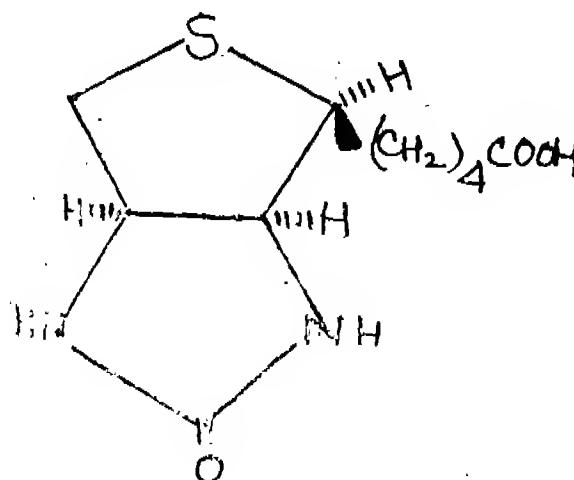
Inventors : VOLKMANN ROBERT ALFRED.

Application for Patent No. 138/Del/83 filed on 4th March, 1983.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

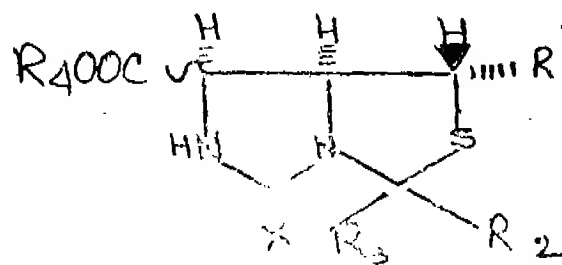
5 Claims

A method for preparation of biotin of the general formula XI.



Formula I

(a) Containing in solution a compound of the formula II.



Formula II

wherein X is sulfur or oxygen;

R_1 is $-(CH_2)_4CH_3$, or

$-(CH_2)_3OR$ or $-(CH_2)_5OR$ wherein R is alkyl, or

$-(CH_2)_4CN$, or

$-(CH_2)_4COOR'$ is alkyl or phenyl;

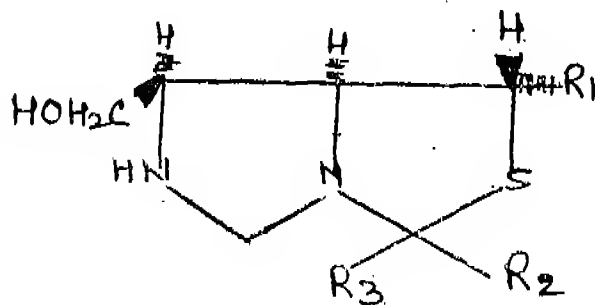
R_2 and R_3 when taken together, are cycloalkyl or $-CH_2-CH_2-Y-CH_2-CH_2-$ wherein Y is sulfur, oxygen or NR'' wherein R'' is $COOR'''$ wherein R''' is alkyl, or

R_2 and R_3 when taken separately, are each alkyl, cycloalkyl or phenyl, provided that R_2 and R_3 are not both phenyl; and

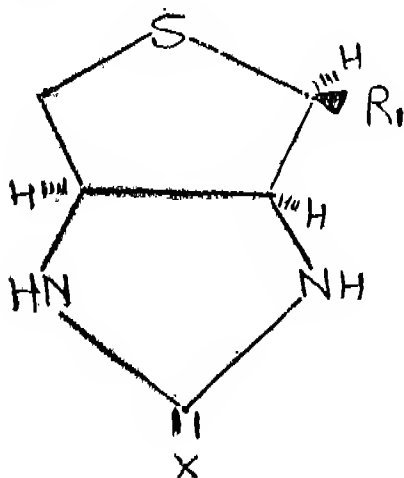
R_1 is alkyl, alkoxyalkyl, cycloalkyl, monoalkyl substituted cycloalkyl, phenyl or mono-, di or trialkyl substituted phenyl such as herein described;

said alkyl and alkoxy having from 1 to 4 carbon atoms and said cycloalkyl having from 5 to 7 carbon atoms;

with an alkali metal borohydride in a protic or nonprotic solvent of the kind such as herein described followed by addition of water so as to obtain a compound of general of general formula III



(b) contacting the resultant hydroxy compound of the formula III with strong aqueous acid to produce a compound of formula VI,



(c) converting the compound of formula VI, in any conventional manner to obtain biotin of formula XI.

Compl. specn. 56 pages.

Drg. 4 sheets

CLASS : 198 D.

159856

Int. Cl. : B03d-3/00.

"AN APPARATUS FOR SEPARATING PARTICLES HAVING DIFFERENT SETTLING VELOCITIES".

Applicant : AXEL JOHNSON ENGINEERING AB, of Box 1004, S-149 01 Nynashamn, Sweden, Swedish company.

Inventors : HANS FOLKE JARSSON & ULF HJELMNER.

Application for Patent No. 151/Del/1983 filed on 9th March, 1983.

2-107 GI/87

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

(5 Claims)

An apparatus for separating particles having different settling velocities by supplying the particles to a liquid flowing continuously through a substantially vertical flow channel, an inlet for the liquid at the bottom end of the channel and an outlet from the channel at the top thereof, characterised in supply means consisting of a practice container for supply of particles to be separated to the liquid flow, said container being provided with control means for controlled supply of amount particles per time unit, and means for a control of velocity flow consisting of an overflow adjustable in the vertical direction such that the particles having lower settling velocity follow the liquid flow and are discharged through the said outlet, while the particles having higher settling velocity fall by gravity downwardly through the channel and are discharged through said inlet.

(Complete specn. 71 pages. Drawing 2 sheets).

CLASS : 108 A

159857

Int. Cl. : C21c-5/42.

AN IMPROVED CONVERTER HAVING A FLOATABLE STOPPER FOR MINIMISING SLAG CARRY OVER UPON DRAINING MOLTEN METAL THROUGH A TAPHOLE OF SAID CONVERTER.

Applicant : USS ENGINEERS AND CONSULTANTS, INC., A CORPORATION OF THE STATE OF DELAWARE, U.S.A., DOING BUSINESS AT 600 GRANT STREET, PITTSBURGH, STATE OF PENNSYLVANIA, U.S.A.

Inventors : JAMES GUY BASSETT, JR., WILLIAM MELTON KENNAN AND SHELDON MCGARRY.

Application for Patent No. 302/Del/1983 filed on 10th May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

A converter having a refractory lining therein, a taphole located near the mouth of said converter, a floatable stopper for minimising slag carryover upon draining of molten metal from said converter through said taphole, said floatable stopper comprising a body having a density between the density of the molten metal and slag in said converter and having a cross-section of minimum dimensions which is greater than the maximum dimension of said taphole, characterised in that said body of said floatable stopper has equilateral generally planar faces, the intersections of which are lodged in the taphole, where by said body blocks about 40% of the taphole opening area when the molten metal is drained out.

Compl. specn. 9 pages.

Drg. 1 sheet

CLASS : 85 C, 195 D, 33 D.

159858

Int. Cl. : F 16k 3/00, F 27d 3,00.

"A SLIDING GATE VALVE ASSEMBLY FOR CONTROLLING THE FLOW OF MOLTEN METAL".

Applicant(s) : USS ENGINEERS AND CONSULTANTS, INC., a corporation organised and existing under the laws of the State of Delaware, United States of America and doing business at 600 Grant Street Pittsburgh, Pennsylvania, United States of America.

Inventor(s) : EARL PAGE SHAPLAND.

Application for Patent No. 342 DFL 1983 filed on 24th May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

(6 Claims)

A sliding gate valve assembly for controlling the flow of molten metal, which assembly includes a stationary refractory plate and in sliding contact with said stationary plate, a refractory slide plate, a movable slide frame in which said slide plate is seated and resilient means for urging said slide plate into sealing engagement with said stationary plate characterised in that said resilient means comprises a flexible diaphragm member positioned in said valve assembly in abutting relation with substantially the entire facing surface of the adjacent refractory plate, for applying a substantially uniformly distributed force about substantially the entire abutting surfaces of said refractory plates.

(Complete specn. 27 pages. Drawing 10 sheets).

CLASS : 32 F 2(b)

159859

Int. Cl. : C 07 d—49/00, 51/00, 57/00.

PROCESS FOR THE PREPARATION IMIDAZOLE COMPOUNDS.

Applicants : NEWPORT PHARMACEUTICALS INTERNATIONAL, INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF CALIFORNIA, U.S.A., OF 897 WEST 16TH STREET, NEWPORT BEACH, CALIFORNIA, 92660, U.S.A.

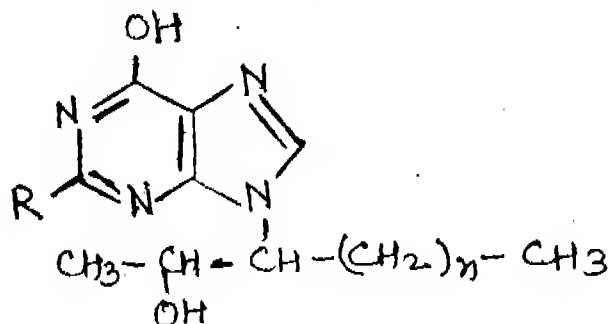
Inventors : LIONEL NORTON SIMON, HANS-RUDOLF MUELLER, HANS ZUTTER.

Application for Patent No. 359/Del/1983 filed on 30th May, 1983.

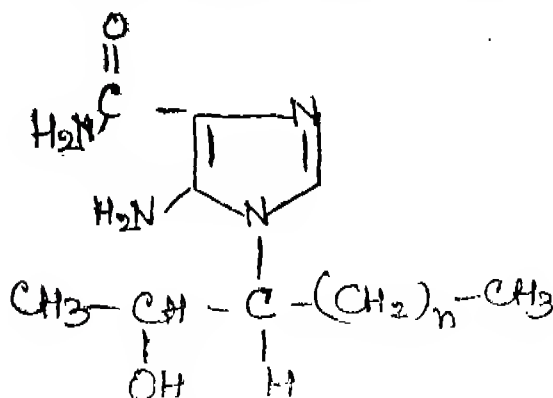
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A process of preparing a compound of the Formula 3



where R is hydrogen or lower alkyl, and n is an integer from 1 to 5, which comprises reacting a compound of the formula 1 with an equimolar amount of a lower alkyl.



orthoester of a lower fatty acid in the presence of acetic anhydride.

Compl. specn. 18 pages.

Drg. 4 sheets

CLASS : 144 B

159860

Int. Cl. : C 23c 3/00.

AN IMPROVED PROCESS FOR THE PREPARATION OF ALUMINIUM CONDUCTING PASTE FOR USE IN SOLAR PANELS.

Applicants : CHIEF CONTROLLER, RESEARCH & DEVELOPMENT, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI (INDIA), AN INDIAN NATIONAL.

Inventor : GIRISH CHANDRA DUBEY.

Application for Patent No. 413/Del/1983 filed on 18th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

An improved process for the preparation of aluminium conducting paste suitable for solar panels comprising mixing 11.7 to 28 weight percent of aluminium silicon alloy with 2 to 20% by weight of glass frits, 2 to 10% by weight of a surfactant as herein described in an inert liquid, such as alcohols like terpinols and esters like acetates and propionates and balance of a wetting agent to form the said paste.

Compl. specn. 15 pages.

Drg. 3 sheets

CLASS : 116 F & G

159861

Int. Cl. : B 66b—5/28.

A BUFFER FOR USE IN STOPPING AN ELEVATOR CAR OR COUNTERWEIGHT.

Applicant : OTIS ELEVATOR COMPANY, A CORPORATION OF THE STATE OF NEW JERSEY, LOCATED AT TEN FARM SPRINGS, FARMINGTON, CONNECTICUT-06032, U.S.A.

Inventor : WERNER KOPPENSTEINER.

Application for Patent No. 426/Del/1983 filed on 22nd 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, New Delhi-110 005.

9 Claims

A buffer for use in stopping an elevator car or counter weight, characterized by :

- (a) a housing;
- (b) a rail vertically mounted in said housing for axial sliding within said housing;
- (c) an intercepting plate for engagement with said elevator car or counterweight, said plate being mounted on an end of said rail which project from said housing;
- (d) a brake assembly mounted on said housing to slide on said rail to oppose the motion thereof, said assembly comprising :
 - (i) a brake shoe attached to said housing on one side of said rail,
 - (ii) a resilient member attached to said housing on the side of the rail opposite to said brake shoe,
 - (iii) a roller provided between said resilient member and the said other side of the rail,

said resilient member being located in relation to said rail and spaced apart therefrom to force said roller progressively harder against said rail as the rail moves vertically in one direction in response to the motion of the car.

Compl. specn. 11 pages.

Drg. 2 sheets

CLASS : 133 A

159862

Int. Cl. : F 16 k—3/00 & H 0 2 P—3/00.

BRAKING ASSISTANCE SERVOMOTOR.

Applicant : D.B.A., OF CENTRE PARIS PLEYEL, 93521 ST DENIS CEDEX 01, FRANCE, A FRENCH COMPANY.

Inventors : GERARD MORIN.

Application for Patent No. 527/Del/1983 filed on 2nd August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

A braking assistance servomotor comprising a first (22) and a second (26) pneumatic chambers separated by a piston (20) carrying an output rod (42), the piston having a hub (19) enclosing a three-port valve means (30) actuable by an input rod (36) to put the second chamber (26) selectively in communication with the first chamber (22) or with the atmosphere, the valve means comprising an axially movable annular valve member (32) co-operating selectively in seating engagement with a mobile seat (34) formed by a plunger (30) firmly fixed to the input rod (36) and against an annular seat (40) formed by the hub (19) within which the plunger is axially slidingly received, the plunger having a cylindrical portion (53) of reduced diameter defining at least one radial shoulder (54) directed towards the valve member (32), the hub (19) being formed, adjacent said portion (53) of the plunger (50) of reduced diameter, with a radial recess (70) within which is mounted a stop key (60) adapted to cooperate selectively in abutment with said shoulder (54) during the return of the valve means (30) towards its rest position, said stop key consisting of a plate component having a body portion (61) housed in said radial recess and extended by a profiled end portion (62) forming an abutment for said shoulder of said plunger, wherein said body portion comprises a flat main part (61) extended laterally by two angularly folded lateral edges (64) for mounting said key without axial play within said radial recess (70).

Compl. specn. 12 pages.

Drg. 2 sheets

CLASS : 195 B

159863

Int. Cl. : F 16 k—21/00.

A CONSTANT PRESSURE VALVE FOR GASES.

Applicant : KAPCOMPANY GENERAL LIMITED, C/O KAPUR SOLAR FARMS, BIJWASAN NAGAR, GARH ROAD, P.O. KAPAS HERA, NEW DELHI-110 037, INDIA, AN INDIAN COMPANY.

Inventors : JAGDISH CHANDRA KAPOOR.

Application for Patent No. 548/Del/1983 filed on 10th August, 1983.

Complete specification left on 11th September, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A constant pressure valve for providing a discharge of gas of constant pressure comprising a valve housing having an inlet and outlet, a diaphragm disposed within said housing between the outlet and inlet a valve rod securedly held at one end to said diaphragm, said valve rod having a valve at the opposite end, a valve seat disposed within said housing and cooperating with said valve so that the diaphragm, depending upon the pressure of gas acting thereon urges the valve in a direction either away of towards said seat.

Provisional specification 4 pages.

Complete specification 7 pages.

CLASS : 129 J & 12 D

159864

Int. Cl. : B 21 b, 43/04 & 43/10.

APPARATUS FOR CONVEYING AND TREATING STEEL ROD IN A SERIES OF OFFSET OVERLAPPING RINGS.

Applicant : MORGAN CONSTRUCTION COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE COMMONWEALTH OF MASSACHUSETTS, U.S.A., OF 15 BELMONT STREET, WORCESTER, MASSACHUSETTS, 01505, U.S.A.

Inventors : JALIL ASJED A., WINSLOW EARL S. AND GAGE CHARLES H.

Application for Patent No. 554/Del/83 filed on 12th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

Apparatus for conveying and treating hot rolled steel rod arranged in a series of offset overlapping rings, comprising :

a conveyor having mutually spaced driven rollers on which the rings are transported along said conveyor;

nozzle means defining slots which underlie the rollers and which extend transversely across substantially the full width of said conveyor;

heat resistant means filling the gaps between said nozzle means;

conduits communicating with said slots;

means for supplying cooling air via said conduits; and exclusively through said slots for upward application directly against the undersides of said carriers, whereupon at least portions of the thus applied air flow around said rollers to impinge against the undersides of the rings being transported thereon; and

means connected with said conduits for varying the amount of air being supplied through said slots along the lengths thereof.

Compl. specn. 19 pages.

Drg. 3 sheets

CLASS : 23 II

159865

Int. Cl. : B 65 b 3/00.

A BLANK FOR FORMING FLAT TOP END CLOSURE FOR A LIQUID CARRYING PAPERBOARD CONTAINER.

Applicant : Ex-CELL-O CORPORATION, OF 2855 COOLIDGE, TROY, MICHIGAN 48084, U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF MICHIGAN, U.S.A.

Inventor : ROBERT EDWARD LISIECKI.

Application for Patent No. 561/Del/1983 filed on 17th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A blank for forming flat top end closure for a liquid carrying paperboard container, said blank comprising four side panels, first and second pairs of top closure panels alternately connected by respective horizontal score lines to the top edges of said four side panels as extension thereof, said first pair of top closure panels each including a substantially triangular panel portion defined by converging diagonal score lines, and a pair of fold-back panels integrally connected to and folded between said substantially triangular panel portion and the respective adjacent panel of said second pair of top closure panels, said second pair of top closure panels including one shorter and one longer

panel, a diagonal opening assist score line formed on each of said shorter and longer panels, a lift tab formed on a side edge of said longer panel adapted to serve as a lift tab for the portion of said longer panel adjacent its diagonal opening assist score line and the integrally connected fold-back panel, and a lift tab formed on one of said fold-back panels adapted to serve as a lift tab formed on one of said fold-back panels adapted to serve as a lift tab for said fold-back panel and the portion of said shorter closure panel adjacent its diagonal opening assist score line once the blank has been sealed into a liquid carrying container which is in the process of being opened.

Compl. specn. 13 pages.

Fig. 3 sheets

CLASS : 80 k & 128 G

159866

Int. Cl. : B 01 d—41/00.

CONVOLUTED PLURAL LAYER FILTER ASSEMBLY FOR FILTRATION.

Applicant : PALL CORPORATION, OF 30 SEA CLIFF AVENUE, GLEN COVE, NEW YORK 11542, U.S.A., A U.S. CORPORATION.

Inventors : DAVID JOHN ROSENBERG AND VLADO IVAN MATKOVICH.

Application for Patent No. 580/Del/1983 filed on 25th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

15 Claims

Convoluted plural layer filter assembly for filtration comprising a housing; fluid inlet and a fluid outlet in the housing, each opening into a fluid chamber; and, disposed in the fluid chamber across the line of fluid flow from the inlet to the outlet so that all flow from the fluid inlet to the fluid outlet must pass therethrough, a filter element composite comprising a filter sheet material sandwiched between layers of foraminous spacer sheet material, the filter element composite having an upstream side and a downstream side and separating the chamber into a first portion on the upstream side of the filter element composite communicating with the fluid inlet, and a second portion on the downstream side of the filter element composite communicating with the fluid outlet; the filter element composite is folded on itself as a double layer and the double layer is folded on itself in a plurality of convolutions, defining between the layers throughout the convolutions an open intercommunicating interior space in fluid communication with one of the first and second portions of the fluid chamber, the other side of the layers of the filter element composite throughout the convolutions is in fluid communication with the other portion of the fluid chamber; the plurality of convolutions extending transversely across the fluid chamber, back and forth across the line of fluid flow from the fluid inlet to the fluid outlet, so that the fluid flow en route to the fluid outlet from the fluid inlet may pass at least three times across convoluted folds through the double layers of the filter sheet material, between the open interior space and the space on the other side of the double layers, once forward from the upstream side to the downstream side thereof, through the space between the double layer of filter sheet material, and thence backward through the filter sheet from the downstream side to the upstream side thereof, and then forward through the filter sheet from the upstream side to the downstream side thereof.

Compl. specn. 29 pages.

Fig. 2 sheets

CLASS : 128 G

159867

Int. Cl. : A 16 k 9/04.

A HARD SHELL TAMPER RESISTANT CAPSULE.

Applicant : WARNER LAMBERT COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, HAVING OFFICES AT 201 TABOR ROAD, MORRIS PLAINS, NEW JERSEY 07950, U.S.A.

Inventors : HANS ULRICH BODENMANN, FRITZ WITWER & STEVEN ANDERSON ROBERTS.

Application for Patent No. 594/Del/83 filed on 30th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

26 Claims

A hard shell tamper-resistant capsule comprising coaxial cap and body parts each cap and body part having a generally cylindrical side wall, an open end and a closed end region characterised in that said cap and body parts are fully telescopic parts having side walls of approximately equal lengths and, when the cap and body parts are fully joined in telescopic relationship, the only portion of the body part which is exposed is the closed end region, and wherein the closed end region has an outer surface which is resistant to gripping, whereby separation of the cap and body parts is impeded, said side wall of the body part is housed completely within the side wall of the cap part and said inner surface of said wall of the cap part is completely overlapped by the outer surface of said side wall of the body part and said walls of the cap and body part of the capsule having locking means to lock said cap and body parts.

Compl. specn. 25 pages.

Fig. 28 sheets

CLASS : 72 B

159868

Int. Cl. : C 06 b—29/00.

AN EMULSION EXPLOSIVE COMPOSITION AND A PROCESS FOR PRODUCING THE SAME.

Applicant : IMPERIAL CHEMICAL INDUSTRIES P.L.C., OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF, ENGLAND, A BRITISH COMPANY.

Inventors : JOHN COOPER, DAVID STEWART REID, COLIN ANTHONY MUMME-YOUNG AND ROBERT DAVID GREGSON.

Application for Patent No. 580/Del/1983 filed on 30 Sep 1983.

Convention dated on 22 Oct 1982 (82 30224) (Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

11 Claims

An emulsion explosive composition comprising an oxygen-supplying salt component such as herein described as a discontinuous phase and an organic medium such as herein described forming a continuous phase characterised in that the composition contains a stabiliser comprising a polycyclic hydrocarbon structure such as herein described.

Compl. specn. 19 pages.

Fig. 2 sheets

CLASS : 47E

159869

Int. Cl. : C 10 b—5/00.

A HORIZONTAL CHAMBER COKING OVEN.

Applicant : RUHRKOHLE AKTIENGESELLSCHAFT, OF RELLINGHAUSER STRASSE 1, POSTFACH 10 32 62, 4300 ESSEN 1, WEST GERMANY, A COMPANY ORGANISED UNDER THE LAWS OF WEST GERMANY.

Inventor : ING. WOLFGANG BECKER HEINZ TEWES.

Application for Patent No. 759/Del/1983 filed on 14th November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

A horizontal chamber coking oven having a coke oven door with a door stopper serving as a heat barrier, said door stopper protruding into the oven chamber and connected to a door member which acts as a support for said door stopper, said door stopper keeping the coke oven charge at a given distance from the door member, the coke oven door being locked against a door frame by means of locking device during the coking process, the coke oven door being characterised in that door member consists of a separate force transmittal unit and a separate sealing unit, the sealing unit being retained within the force transmittal unit, the sealing unit having a scaling element which, in a closed position of the oven door is retained against the door frame by the force transmittal unit, said force transmittal unit comprising a hollow frame rigidly connected to said locking device, said hollow frame having longitudinal members and lateral members said longitudinal members having top and bottom openings, said longitudinal members and bottom and top said lateral members of said hollow frame covering sealing surfaces of said door frame, said longitudinal and lateral members having a plurality of equally spaced pressure bolts, and said scaling element consisting of a plate having a centrally located bulge, said bulge being filled with insulating material and slopes to a position parallel to a scaling surface of said door frame.

Compl. specn. 23 pages.

Drg. 18 sheets

CLASS : 85 C+J

159870

Int. Cl. : F 27 D-3/00, 3/06. C 21 C-7/02.

APPARATUS FOR GUIDING AND CHANGING IMMERSION LANCES.

Applicant: PAUL WURTH S.A., OF 32 RUE D'ALSACE, LUXEMBOURG, GRAND DUCHY OF LUXEMBOURG, A COMPANY ORGANISED UNDER THE LAWS OF LUXEMBOURG.

Inventors : PIERRE MAILLIET RADOMIR ANDONOV, HUBERT STOMP, JEAN MONAI.

Application for Patent No. 829/DEL/1983 filed on 8th December, 1983.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

20 Claims

Apparatus for guiding and changing immersion lances, particularly immersion lances intended for immersion in a metal melt, comprising a vertical mount rotatable about its longitudinal axis O by means of a drive, at least two lance carriages mounted on said mount and vertically transportable along said mount, said at least two lance carriages having lance suspension arms for said immersion lances, a gas supply head with an interlocking device for interlocking the gas supply head to one of said immersion lances, said interlocking device consisting of fixed downward pointing vertical pins on a fixed frame, said fixed frame being above said lance carriages, said lance suspension arms having movable upward pointing pins, a drive motor for each said lance carriage provided on said mount for raising and lowering said lance carried by said lance suspension arms, said lance to be connected to said gas supply head, said gas supply head having drilled holes for penetration by said fixed and movable pins, a fixed locking means on said fixed frame for actuating the interlocking device in order to release the connection between the gas supply head and the fixed pins and to effect a connection between the gas supply head and the movable pins, a storage device for supporting new or used lances, and a device for the transfer of the lances back and forth between said storage device and said lance carriages.

Compl. specn. 23 pages.

Drgs. 15 sheets

CLASS : 107-C & G

159871

Int. Cl. : 16 j 1/00.

STEPPED PISTON AND STEPPED PISTON ENGINE.

Applicant & Inventor : BERNARD HOOPER, OF MAYBANK HOUSE, HOPE STREET, WORDSLEY, STOURBRIDGE, WEST MIDLANDS DY8 5OB UNITED KINGDOM.

Application No. 42/Cal/83 filed January 11, 1983.

Convention dated 19th January, 1982 (82 01426) United Kingdom.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

A stepped piston for an engine of the kind specified, the piston having a body with an interior hollow opening to the outside of a lower end of the piston, the body comprising a smaller diameter, working, part, extending from the top of the piston to a step, and a larger diameter, pumping, part extending from the step to a lower end of the piston, at least one piston ring groove formed in an outer surface of the smaller diameter part and at least one piston ring groove formed in the outer surface of the larger diameter part, each piston ring groove, in use, receiving a piston ring, the smaller diameter part of the piston having at least one metering opening providing a through passage for lubricant, between the interior of the piston and the outer surface of the smaller diameter part of the piston.

Compl. specn. 13 pages.

Drgs. 2 sheets

CLASS : 148-D & L

159872

Int. Cl. : G 03 c 7/20.

COLOUR PHOTOGRAPHIC FILMS CONTAINING MONOAZO DYESTUFFS AS FILTER DYESTUFFS.

Applicant : VEB FILMFABRIK WOLFEN, OF 444 WOLFEN 1, GERMAN DEMOCRATIC REPUBLIC.

Inventors : 1. HEINZ-JURGEN OPPENKOWSKI, 2. LORE KLEINSCHMAGER, 3. ULRICH MEISEL.

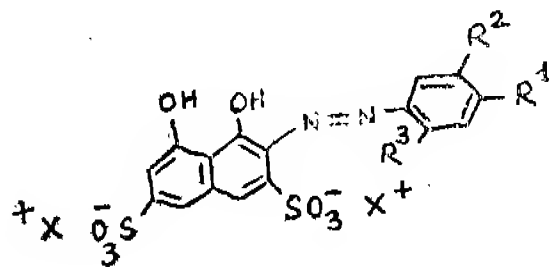
Application No. 43/Cal 83 filed January 11, 1983.

Convention dated 10th December, 1982 (82 35241) United Kingdom.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

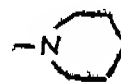
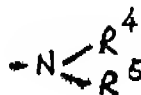
4 Claims

A colour photographic film comprising a film substrate, at least one light-sensitive emulsion layer, a cyan filter dyestuff of the general formula I shown in the accompanying drawings.



in which :

R¹ denotes a group of one of the formulae Ia, Ib and Ic shown in the drawings



R² denotes a hydrogen atom or an alkyl or alkoxy group having up to 4 carbon atoms,

R³ denotes a hydrogen or halogen atom or an alkyl or alkoxy group having up to 4 carbon atoms,

R¹ denotes an alkyl group having up to 4 carbon atoms, R² denotes a hydrogen atom or an alkyl, hydroxyalkyl or sulphaalkyl group having up to 4 carbon atoms, and

X⁺ denotes a proton, an alkali metal ion or an ammonium ion,

and, if desired, at least one auxiliary layer, the cyan filter dyestuff of the given general formula being present in the layer or in at least one of the layers, as the case may be.

Compl. specn. 30 pages.

Drgs. 2 sheets

CLASS : 114-B

159873

Int. Cl. : C 14 c 3/32; C 08 h 7/06.

PROCESS FOR EXTRACTING PROTEIN AND CHROMIUM FROM CHROME TANNED HIDE WASTES.

Applicant & Inventor : GUARDINI, GIULIANO, VILLA GUARDINI, VIA CA NOVE, ISOLA VICENTINA, VICENZA, ITALY.

Application No. 150/Cal/83 filed February 9, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims

A Process for the extraction of chromium and proteins from tannery wastes; comprising the steps of : mechanically grinding the wastes; effecting alkaline chemical hydrolysis of the ground wastes at a pH higher than 10.5 and for a period of 30 to 45 mins and at a temperature of 85 to 100°C; vacuum filtration of the alkaline suspension to separate soluble polypeptides from insoluble chromium hydroxide, and subjecting said polypeptides and said chromium hydroxide, to separate purification processes as hereinbefore described to obtain respectively proteinaceous hydrolyzates and basic chromium sulphate.

Compl. specn. 16 pages.

Drg Nil

CLASS : 40-B

159874

Int. Cl. : B 01 j 11/00.

PROCESS FOR THE MANUFACTURE OF CATALYSTS FOR THE (CO) POLYMERIZATION OF ALPHA-OLEFINS.

Applicant : MONTEDISON S.p.A., OF 31, FORO BUONAPARTE, MILANO, ITALY.

Inventors : 1. ENRICO ALBIZZATI, 2. SANDRO PARODI, 3. PIER CAMILLO BARBE.

Application No. 158/Cal/83 filed February 10, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

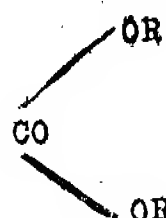
Process for the manufacture of a catalyst for the (co) polymerization of alpha-olefins $\text{CH}_2=\text{CHR}$, wherein R is an alkyl radical with 1-4 C atoms or an aryl radical; which comprises reacting the following components :

- (a) an Al-alkyl compound chosen in particular among the Al-trialkyls and the minimum Alkyl compounds containing two or more Al atoms linked to each other through oxygen or nitrogen atoms or through SO_4 or SO_3 groups;
- (b) an electron-donor compound, reactive towards MgCl but results not to be completely complexed with Al-triethyl at the equivalent point of a potentiometric titration under standard conditions, selected from the following classes :

- Aliphatic and cycloaliphatic, secondary and tertiary monoamines;
- aromatic mono- and polyamines;
- aryleneopolyamines and alkyleneopolyamines in which the alkylene group bridging two nitrogen atoms contains at least 2 C atoms;
- aromatic heterocyclic compounds containing at least one nitrogen atom in the ring;
- aliphatic heterocyclic compounds containing at least two nitrogen atoms in the ring;
- amides, imides, imines and hydrazines;
- compounds free from Al and/or Si atoms containing at least a M-OC or M-NC bond wherein M is metal particularly B, Mg, Zn or Ti;
- electron-donor compounds as herein described free from M-OR or M-NC bonds (M=metal) and containing one or more O and/or S atoms;
- Al compounds containing Al-OC bonds as herein described;

(c) a solid comprising a Ti compound selected between the Ti-halides and the Ti-halogen-alcoholates and an electron-donor compound, both supported on an anhydrous Mg halide in active form, wherein said component (b) is in a molar ratio to the Ti compound of component (c) of at least 1, and in a molar ratio to component (a) lower than 20 the electron-donor compound being chosen among the following classes of compounds :

- (1) mono- and polyesters of saturated polycarboxylic acids in which at least one of the esteric carbonyl groups is linked to a tertiary or quaternary carbon atom or to a linear or branched chain with at least 4 carbon atoms;
- (2) mono- and polyesters of unsaturated polycarboxylic acids in which two carboxyl groups are linked to vicinal, double bond forming carbon atoms and in which at least one of the hydrocarbyl radicals R of the COOR groups is a saturated or unsaturated branched radical with 3 to 20 carbon atoms, or is an aryl or arylalkyl radical with 6-20 carbon atoms;
- (3) mono- and diesters of aromatic dicarboxylic acids with the COOH groups in ortho-position, in which at least one of the hydrocarbyl radicals R contains from 2 to 20 C atoms;
- (4) mono- and polyesters of aromatic hydroxy compounds containing at least two hydroxyl groups in ortho-position, or esters of hydroxyacids containing at least one hydroxyl group in ortho-position with respect to the carboxyl group;
- (5) esters of saturated or unsaturated carboxylic acids RCOOR' , in which at least one of the hydrocarbyl radicals R and R' is a saturated or unsaturated branched radical with 3 up to 20 C atoms, or is an arylalkyl radical with 7-20 C atoms, or is an acyl radical with 3 up to 20 C atoms linked to the esteric carbonyl group directly or through a methylene group, and in which the R' radical, when linear, is a hydrocarbyl radical containing from 1 to 20 C atoms;
- (6) esters of carbonic acid of formula :



wherein at least one of the hydrocarbyl radicals R, which can be the same or different, is a radical with 3 up to 20 C atoms;

(7) silicon compounds containing at least one Si-OR or Si-OCOR or Si-NR- bond, wherein R is a hydrocarbyl radical with 1-20 C atoms.

Compl. Specn. 27 pages.

Drg. Nil.

Class 55-F & 128-G.

159875

Int. Cl. A61 b 5/00, 19/00; A 61 k 27/00.

A DEVICE FOR PRESERVING AND STABILIZING A PROTEINACEOUS SUBSTANCE.

Applicant & Inventor: JAMES S. HARRISON, 12 SIOUX LANE, RINGWOOD, NEW JERSEY, 07456, UNITED STATES OF AMERICA.

Application No. 166/Cal/83 filed February 11, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

A device for preserving and stabilizing a proteinaceous substance such as immunological proteinaceous substances, comprising a base strip of material which is non-absorbent to and insoluble in water and having defined thereon at least one area in which is carried the evaporative residue of a composition which composition, prior to formation of said evaporative residue, comprises a mixture of from 10 to 75% by weight of pyrrolid-2-one, from 10 to 50% by weight of a polyol, from 1 to 20% by weight of a urea and from 1 to 10% by weight of a zinc salt of a nonoxidizing organic or inorganic acid, the relative percentages of said preservative component ingredients being selected from within the respective ranges so that their sum is 100% of said mixture, said mixture being combined prior to formation of said evaporative residue on the base strip with at least sufficient water to solubilize said mixture.

Compl. specn. 16 pages.

Drg. Nil

CLASS : 40-B

159876

Int. Cl. : B 01 j 11/00.

PROCESS FOR THE MANUFACTURE OF CATALYST FOR THE POLYMERIZATION OF ALPHA-OLEFINS.

Applicant : MONTEDISON S.p.A., OF 31, FORO BUONAPARTE, MILANO, ITALY.

Inventor : 1. ENRICO ALBIZZATI.

Application No. 159/Cal/83 filed February 10, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

Process for the manufacture of catalyst for the polymerization of alpha-olefins $\text{CH}_2=\text{CHR}$, wherein R is a C_1 - C_4 alkyl or aranyl radical, which comprises reacting with each other the following components :

- an Al-alkyl compound, preferably an Al-trialkyl or a compound containing two or more Al atoms linked to each other through oxygen or nitrogen atoms or through SO_4 or SO_3 groups;
- an electron-donor compound as herein described (or Lewis base) which, under the standard conditions of measurement, as hereinafter specified, reacts with MgCl_2 , but it results not to be completely complexed with Al-triethyl at the equivalent point of a potentiometric titration;
- a solid comprising a Ti-halide or Ti-halo-alcoholate containing at least a Ti-halogen bond, said Ti compound being supported on an anhydrous Mg halide, and at least one of the following activators

in an amount not lower than 5% by mols with respect to the Mg halide;

(1) an Al, Fe, Mn, Sb or Zn-compound as herein described containing at least a metal-halogen bond;

(2) a complex between an electron-donor compound e.g. esters of carboxylic acids and ethers and a halide of metals of Groups II to VIII of the Periodic System other than Ti;

(3) an organic compound e.g. a compound or composition inert to Mg-halides, having a dielectric constant at 20°C higher than 2, and selected among the compounds forming H-bond, the halogenated hydrocarbons, the chlorosilanes and the polysiloxanes, anisole, chloroanisole, bromophenol;

compounds (1), (2) and (3) being extractable from the solid for at least 30% by mols by treatment with toluene at 80°C for 2 hours, and the surface area of the solid after extraction being higher than 20 m^2/g , the molar ratio of (b) to the Ti compound of (c) is at least 1, whereas the molar ratio of (b) to (a) is lower than 20.

Compl. specn. 30 pages.

Drg. Nil

CLASS : 40-F

159877

Int. Cl. : B 01 f 1/00.

LOW FLUID LOSS HEAVY BRINES CONTAINING HYDROXYETHYL CELLULOSE.

Applicant : NL INDUSTRIES, INC., 1230 AVENUE OF THE AMERICAS NEW YORK, NEW YORK 10020, UNITED STATES OF AMERICA.

Inventors : 1. ROY FRANCIS HOUSE, 2. LONNIE DANIEL HOOVER.

Application No. 222/Cal/83 filed February 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A method of making a heavy brine solution which has an improved resistance to loss of fluid therefrom and containing (a) at least 16% by weight of zinc bromide, and (b) calcium chloride and/or calcium bromide with the proviso that when the brine contains more than 20% by weight of zinc bromide, it also contains both calcium chloride and calcium bromide, calcium chloride being present in an amount of at least $(2x-33)\%$ by weight, where X is the weight percentage of zinc bromide in the brine, which method comprises mixing the brine with sufficient hydroxyethyl cellulose to reduce its fluid loss, such that the hydroxyethyl cellulose is incompletely solubilized.

Compl. specn. 14 pages.

Drg. Nil

CLASS : 27-I; 129-E, G

159878

Int. Cl. : E 02 d 7/08.

DROP HAMMERS FOR DRIVING PILES OR THE LIKE INTO THE GROUND.

Applicant : UDDCOMB SWEDEN AB., OF BOX 1040 S-371 24 KARLSKRONA, SWEDEN.

Inventors : 1. BERTIL BORG, 2. KJELL LANDAFUS.

Application No. 260/Cal/83 filed March 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claims

A drop hammer for driving piles or the like into the ground, said hammer comprising an elongated core having

at one end an impact surface, a plurality of casings, each casing having a first end and a second end opposite said first end with each first end being adjacent said impact surface of said core, the innermost casing being connected adjacent its second end to the end of said core opposite said impact surface, the innermost and next adjacent casing being connected together adjacent their first ends with the subsequent casings being connected together alternating between said second and first ends thereof, whereby each casing is attached to an adjacent casing, said drop hammer including a shock wave transferring connection element between said core, adjacent said impact surface thereof, and the adjacent end of at least the innermost one of said casings.

Compl. specn. 6 pages.

Drg. 1 sheet

CLASS : 32Faa

159879

Int. Cl. : C07c 41/06.

PROCESS FOR PRODUCING TERT. BUTYL ALKYL ETHERS IN THE PRESENCE OF BUTADIENE.

Applicant : SNAMPROGETTI S.p.A., OF CORSO VENEZIA 16, MILAN, ITALY.

Inventors : 1. FRANCESCO ANCILLOTTI. 2. ERMANNO PESCAROLLO.

Application No. 302/Cal/83 filed March 11, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A process for producing tert. butyl alkyl ethers by reacting the isobutylene of a hydrocarbon feedstock, which also contains butadiene at a concentration of between 10 and 70% by weight, with one or more aliphatic alcohols, preferably methanol or ethanol, in one, two or more reactors, preferably in series, characterised in that the reactants and the reaction products are made to flow from the bottom upwards through the reactor or reactors.

Compl. specn. 7 pages.

Drg. Nil

CLASS : 11-C; 17-D; 54

159880

Int. Cl. : A 23 k 1/00, 1/08, 1/14.

A PROCESS FOR OBTAINING IMPROVED KARANJ SEED ANIMAL FEEDSTOCK OR FEEDSTOCK SUPPLEMENT.

Applicant & Inventor : DR. BINOD KUMAR VARMA, ASSISTANT PROFESSOR OF CHEMISTRY, RANCHI VETERINARY COLLEGE, RANCHI, INDIA.

Application No. 309/Cal/83 filed March 14, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A process for obtaining improved Karanj seed animal feed stock or feed stock supplement which is free of normally objectional colour and also free from toxic material as herein described which process comprises subjecting deoiled Karanj seed cake to an extraction step using methanol or 90% pure ethanol in a ratio of cake to ethanol or methanol of 1:3, said extraction being carried out at ambient conditions followed by recovering the insoluble material in the usual manner as said improved cake and recovering and reusing the alcohol in the extraction step.

Compl. specn. 5 pages.

Drg. Nil

CLASS : 28C.

159881

Int. Cl. : F23c-1/00.

"AN IMPROVED BURNER FOR USE WITH FLUID FUELS".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA. AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : HARISH KUMAR MADAN, TRILOK NARAIN SINGH AND PREM NATH BHAMBHI.

Application for Patent No. 393/DEL/1983 filed on 10th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

5 Claims

An improved burner for use with fluid fuels comprising a primary air chamber provided with at least two stage atomisation means for the fuel, the first stage by the pressure energy of the fuel and the second stage by the impingement of air on the initially atomised fuel, the first stage atomisation means comprising a fuel inlet pipe provided with a swirling pressure jet nozzle at its outer end, the inlet pipe and the nozzles fixed concentrically to the primary air chamber, the second stage atomisation means comprising primary inlet pipes for passing primary air into the said chamber and an impinging cone fixed at the outlet of the said chamber to make the primary air to impinge upon the first stage atomised fuel, the diameter of the impinging cone is such as to impart a high or sonic velocity to the air, the primary inlet pipes mounted tangentially on the opposite sides of the said chamber and a secondary inlet pipe for passing secondary air to complete combustion provided at the secondary air chamber which surrounds the primary air chamber.

Complete specification 10 pages

Drawing 3 sheets

CLASS : 98 G.

159882

Int. Cl. : F28d 13/00.

"A HEAT EXCHANGER".

Applicant : CREUSOT LOIRE, A FRENCH COMPANY OF 42 RUE D'ANTOIN, 75008 PARIS, FRANCE.

Inventors : GERARD CHRYSOSTONE & DANIEL

Application for Patent No. 337/Del/83 filed on 23rd May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

A heat exchanger with a vertical axis and having an inlet and outlet at the upper and lower portions of said tank for supplying and discharging respectively, the granular charge at least partly filling the tank, said inlet of the tank being connected to a cyclone which in turn being connected to a fluidization vessel, an elongated exchange member located in said tank between an upper (A) and lower (B) levels of said charge and injection means located in said tank, said heat exchanger comprising flow gas speed increasing means located at the mid portion of said tank for progressively increasing the speed of rising flow of the gas injected from the lower part to the upper part of the tank, from an initial speed less than the critical speed of fluidization and regulating means connected to said flow gas speed increasing means for regulating the initial speed of the rising flow of gas at the base of said tank.

Complete specification 19 pages.

Drg. 1 sheet

CLASS : 32 F₁ & 32 F₃(b)

159883

Int. Cl. : C 07 d 33/00.

PROCESS FOR THE PREPARATION OF 4-HYDROXYQUINOLINES.

Applicant(s) : RHONE-POULENC SANTE, A FRENCH BODY CORPORATE OF "LES MIROIRS", 18, AVENUE D'ALSACE, 92400 COURBEVOIE, FRANCE.

Inventor(s) : DOMINIQUE PETRE & DENIEL MICHELET.

Application for Patent No. 410/Del/1983 filed on 16th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A process for the preparation of a 4-hydroxyquinoline of the general formula I shown in the accompanying drawings in which R represents a hydrogen atom or one, two or three substituents, which may be the same or different, selected from halogen atoms, alkyl radicals containing 1 to 4 carbon atoms, alkoxy radicals containing 1 to 4 carbon atoms, and the trifluoromethyl radical, the substituent(s) being in the 2-, 3-, 5-, 6-, 7-, or 8-position which comprises oxidising a 1, 2, 3, 4- tetrahydroquinolin-4-one of the general formula II of the drawings in which R is as hereinbefore defined, in a basic medium, under pressure, by means of excess oxygen or air at a temperature between 80° and 150°C.

Compl. specn. 16 pages.

Drg 1 sheet

CLASS : 204

159884

Int. Cl. : GO 1 g-1/00.

A WEIGHBRIDGE.

Applicant : W & T AVERY LIMITED, A BRITISH COMPANY OF SMETHWICK, WARLEY, WEST MIDLANDS, B66 2 LP, ENGLAND.

Inventor : JOHN BRYCE ALCORN.

Application for Patent No. 425/Del/1983 filed on 22nd June, 1983.

Convention date 11-8-82/23116/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A weighbridge comprising an assembly of a plurality of aligned horizontal concrete slabs, each said concrete slab having attached thereto metal mounting structures, said metal mounting structures each having a horizontal load bearing portion supporting said concrete slabs and further being provided with a recess which extends over at least the major portion of the depth of said slabs, the mounting structure recesses at the two ends of said assembly of slabs, and the mounting structure recesses on at least one of the slabs at the junction of two said slabs, being provided with means for fixing the upper ends of supporting load measuring units in contact with the mounting structure, said load measuring units in operation of the weighbridge reacting to loads imposed on the upper surface of the concrete slab assembly to give a measurement of such loads, and means being provided in said recesses for connecting adjacent slabs together whilst permitting a degree of flexing between said adjacent slabs.

Compl. specn. 9 pages.

Drgs. 3 sheets

3—107 GI/87

CLASS : 114 F

159885

Int. Cl. : C 14 c-3/00.

PROCESS FOR PRETANNING, TANNING OR RETANNING LIMED LEATHER STOCK.

Applicant : ROHM AND HAAS COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF DELAWARE, U.S.A., OF INDEPENDENCE MALL WEST, PHILADELPHIA, PENNSYLVANIA 19105, U.S.A.

Inventors : WILLIAM CASE PRENTISS AND DAVID NOEL PRICE.

Application for Patent No. 69/Del/1984 filed on 24th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

A process for pretanning, tanning or retanning limed leather stock, wherein the process comprises the steps of :

- (i) drumming leather stock with a solution of tanning agent at a pH of from 4 to 5.6 until said leather stock has been penetrated by said tanning agent ;
- (ii) lowering the pH of the leather stock and solution of tanning agent to effect tannage and substantial exhaustion of the tanning agent ;

wherein the level of tanning agent is from 3 percent to 20 percent based on the limed weight of the leather stock and wherein the tanning agent is a copolymer having a weight average molecular weight of 3500 to 9000 and comprising at least 60 mole percent methacrylic acid units and at least 5 mole percent of units of at least one (C₁-C₄) alkyl acrylate.

Compl. specn. 23 pages.

CLASS : 49 E & F

159886

Int. Cl. : A 21 b 3/00.

AN IMPROVED RADIATOR FOR GAS APPLIANCES.

Applicant : SUPER PARTS PRIVATE LIMITED, E. 42/3, PHASE II, OKHLA INDUSTRIAL ESTATE, NEW DELHI.

Inventor : RAHOUL RAI.

Application for Patent No. 143/Del/84 filed on 18th February, 1984.

Complete specification left on 26th July, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

An improved radiator for gas appliances comprising a finned radiator body and a reflector plate; the reflector plate consists of a metallic plate having a flanged longitudinal edge and further having two extensions one on either side of its lateral edge, the width of each of the said extensions being lesser than the width of the said reflector plate; the said extensions sliding into fin slots on the said finned radiator body; the said flanged longitudinal edge of the reflector plate resting on surface of the finned radiator body thereby separating the reflector plate and the finned radiator body at an angle.

(Provisional specification 4 pages).

Compl. specn. 5 pages.

Drgs. 2 sheets

CLASS : 116 CG

159887

Int. Cl. : B 65 g 19/00 35/00.

IMPROVED SOLID MATERIAL CONVEYOR SUCH AS FAN BLADE FOR CONVEYING MATERIAL LIKE COAL.

Applicant : BHARAT HEAVY ELECTRICALS LIMITED HAVING ITS REGISTERED OFFICE AT 18-20, KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA, INDIAN BODY CORPORATE.

Inventors : NARASIMHAN RAMADASS AND DUMPALA MAHESWAR REDDY.

Application for Patent No. 232/Del/84 filed on 13th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

An improved solid material conveyor including fan blade for conveying materials like coal characterised by the improvement providing flow obstructing means comprising of ribs on the surface of the fan blade and extending across the path of flow of the solid material, said ribs being fixed at one or more locations on said fan blade and wherein each rib is formed of two members namely a fixed horizontal member and an inclined or vertical member and further said horizontal member and the vertical/inclined member are integrally formed or formed of two independent members joined together.

Compl. specn. 8 pages

Drg. 1 sheet

CLASS : 5 C

159888

Int. Cl. : A 01 d 43/00.

APPARATUS FOR HARVESTING GRANULAR FRUITS.

Applicant : KLEMENS KALVERKAMP, OF WAREN-DORFERSTRASSE 265, 4730 AHLEN/WESTFALIA, FEDERAL REPUBLIC OF GERMANY, A WEST GERMAN CITIZEN.

Inventor : KLEMENS KALVERKAMP.

Application for Patent No. 235/Del/1983 filed on 7th April, 1983, Convention date on 19-11-1985/4553379/ (U.S.A.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

Harvesting apparatus for harvesting granular fruits carried by stems on the stalks of plants, comprising :

a frame adapted to move over the ground towards a plant; said frame being provided with two outer dividers and middle dividers and between said out dividers at least one picking aperture extending in the direction of movement and oblique to the ground;

a rotatable charging roller provided adjacent to said picking aperture;

guide means carried by said frame for guiding the plant towards said picking aperture; and

a casing mounted on said frame and extending partially about said charging roller;

said charging roller including a rotatable shaft and a plurality of vanes extending from said shaft to grasp one side of the plant and draw the plant through the picking aperture against the casing to pluck the fruit from the stalk.

Compl. specn. 19 pages.

Drgs. 8 sheets

CLASS : 39L.

159889

Int. Cl. : C 01 G-23/00.

PROCESS FOR PRODUCTS TITANIUM DIOXIDE.

Applicant : NI INDUSTRIES, INC., a corporation organised and existing under the laws of the State of New Jersey, United States of America, having a principal place of business at 1230 Avenue of the Americas, New York, New York 10020, United States of America.

Inventors : JOSEPH L. WALDMAN, EDGAR KLEIN, ACHIM KULLING, JOSEPH A. RAHM.

Application for Patent No. 261/Del/1984 filed on the 26th March, 1984.

Divisional to application No. 845/Del/1980 filed on the 27th November, 1980.

Appropriate office for filing opposition proceedings (Rule 4, patents Rules 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A process for producing titanium dioxide from a titanyl sulfate solution, which comprises :

- (1) reacting a titaniferous bearing material of the kind such as herein described in an amount between 10% and 400% above the stoichiometric amount of titaniferous bearing material necessary to react with sulfuric acid to provide titanyl sulfate with a dilute sulfuric acid solution having a concentration between 25% and 60% by weight, based upon the total weight of said solution, at a temperature below 140°C;
- (2) cooling the resulting reaction mixture to a temperature below 110°C without precipitating titanyl sulfate to produce a reaction mixture containing dissolved titanyl sulfate;
- (3) diluting the reaction mixture containing titanyl sulfate with a sufficient amount of a diluent material selected from the group consisting of water, titanyl sulfate solution, and mixtures thereof to produce a reaction mixture having the following properties in the absence of undissolved solids an iron to titanium dioxide weight ratio of 0.7—1.1 : 1.0, a titanium dioxide content of 120 to 180 grams per liter, a specific gravity of 1.4 to 1.8, and an active sulfuric acid to titanium dioxide mole ratio of 1.4—1.9 : 1.0;
- (4) separating undissolved solids from the reaction mixture to provide a solution of iron sulfate and titanyl sulfate;
- (5) removing iron sulfate from said solution of iron sulfate and titanyl sulfate to produce a solution of titanyl sulfate;
- (6) hydrolyzing by known methods, said titanyl sulfate to provide a titanium dioxide hydrate, and spent sulfuric acid solution;
- (7) calcining said titanium dioxide hydrate to provide titanium dioxide; and
- (8) recovering titanium dioxide.

Compl. Specn 28 pages.

Drg. 1 sheet.

CLASS : 33A.

159890

Int. Cl. : B22d 11/12.

"A MACHINE FOR CONTINUOUS CASTING".

Applicant : CLECIM, a French company, of 107 boulevard de la Mission Marchand, 92400 Courbevoie, France.

Inventor : RAYMOND VIAL.

Application for Patent No. 463/Del/84 filed on 5th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A machine for continuous casting of a ferrous metal product with a rectangular section, comprising two large sides and the small sides, said machine comprising a framework, an adjustable ingot mold with means for adjusting the width of said product and a device for supporting the sides of said product leaving said ingot mold, said supporting device comprising four plates for supporting respectively said large and small sides, wherein the plates which support said small sides are each supported by the stem of a double acting jack fixed on the framework of said machine, and the pressure applied to the inputs of said double acting jacks is determined by taking into account the height of the liquid column at this location, said plates automatically following a gradual movement of said small sides during adjustment of the width of said product.

Compl. Specn. 6 pages.

Drig. 1 sheet.

CLASS : 10 A. & 72 D.

159891

Int. Cl. : C06 b 19/00.

"NEW PROCESS FOR THE MANUFACTURE OF NITROCELLULOSE-BASED PROPELLANT POWDERS WITHOUT PRIOR DRYING".

Applicant : SOCIETE NATIONALE DES POUDRES ET EXPLOSIFS, OF 12 QUAI HENRI IV-75181 PARIS CEDEX 04, FRANCE, A FRENCH COMPANY.

Inventor : LOUIS JEAN-JACQUES LENEVEU, DIDIER JEAN TRENEULES & JEAN-LOUIS MARIE ROLLAND.

Application for Patent No. 352/Del/80 filed on 14th May, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

Process for the manufacture of granular propellant powders from undried nitrocellulose, characterised in that :

(a) aqueous nitrocellulose is mixed in a malaxator, if appropriate in the presence of a stabiliser, with a solvent chosen from the group comprising methyl ethyl ketone, ethyl acetate or methyl ethyl ketone/ethyl acetate mixtures, the proportion by weight of solvent being between 50 and 100%, relative to the weight of dry nitrocellulose,

(b) the resulting paste is calendered in the cold, and

(c) the resulting paste is chopped into grains after draining.

Compl. Specn. 13 pages.

CLASS : 72B.

159892

Int. Cl. : C06 b, 1/00.

"HIGH ENERGY GEL/SLURRY EXPLOSIVE COMPOSITIONS AND PROCESS FOR PREPARING SAME".

Applicant : THE CHIEF CONTROLLER RESEARCH & DEVELOPMENT, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI, INDIA, AN INDIAN NATIONAL.

Inventors : BRIJ MOHAN LAL SHERA, HARINDER SINGH, SOHAN SINGH AND SAHIB DAYAL MALHOTRA.

Application for Patent No. 280/Del/81 filed on 6th May, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A high energy gel/slurry explosive composition comprising an inorganic oxidizing agent 29.5 to 70%, a metallic fuel 10% to 42%, water 12 to 15, "ISPAGHULA" or "ISAFGUL" husk as hereinbefore defined, 2.5 to 3% as thickener and ammonium phosphate 0.5%, an antifreeze agent 1% and 10 to 20% of an explosive sensitizer.

Compl. Specn. 11 pages.

CLASS : 72B.

159893

Int. Cl. C06b 1/00.

"HIGH ENERGY GEL/SLURRY EXPLOSIVE COMPOSITION AND PROCESS FOR PREPARING SAME".

Applicant : THE CHIEF CONTROLLER, RESEARCH & DEVELOPMENT, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI, INDIA, AN INDIAN NATIONAL.

Inventors : BRIJ MOHAN LAL SHERA, HARINDER SINGH, SOHAN SINGH & SAHIB DAYAL MALHOTRA.

Application for Patent No. 92/Del/85 filed on 5th February, 1985.

Divisional to Application for Patent No. 280/Del/81 filed on 6th May, 1981 and antedated to 6th May, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A high energy gel/slurry explosive composition comprising an inorganic oxidizing agent 29.5 to 70%, a metallic fuel 10 to 42%, water 12 to 15%, "ISPAGHULA" or "ISAFGUL" husk as hereinbefore defined, 2.5 to 3% as thickener and ammonium phosphate 0.5% and 10 to 20% of an explosive sensitizer.

Compl. Specn. 14 pages.

CLASS : 197.

159894

Int. Cl. : A47k 5/14, B08b 7/00.

"AN APPARATUS FOR MIXING AND DELIVERING LIQUIDS FOR CLEANING PURPOSES".

Applicant : B & B BOLOGNA DI BASAGLIA RUBENS E BOLLINA EZIO S.N.C., OF VIA ALIDORI, 36, BOLOGNA, ITALY, AN ITALIAN COMPANY.

Inventor : RUBENS BASAGLIA & EZIO BOLLAIANA.

Application for Patent No. 101/Del/82 filed on 8th February, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

An apparatus for mixing and delivering liquids in the form of a compact foam for cleaning purposes characterized in that it comprises : a first tank for a first liquid, or solvent, connected, via a first conduit, to a pump whose output is in turn connected, via a second conduit, to a mixing-

injecting device for forming foam, said mixing-injecting device being supplied by a third pipe connected to a source of compressed air; and at least one second container for a second liquid, or solute, provided with a fourth conduit that runs, via a regulator-doser, into the said first conduit upstream of the said pump.

Compl. Specn. 7 pages.

Drg. 1 sheet.

CLASS : 194 C₁ and 144 A

159895

Int. Cl. B 05b 5/00; B 44d 1/00 and H 01j 29/00.

"AN APPARATUS FOR SPUTTERING THIN FILMS OF A SELECTED COATING MATERIAL UPON SUBSTRATES".

Applicant : SPATTERPROOF GLASS CORPORATION A DELAWARE CORPORATION WITH OFFICES AT 4815 CABOT AVENUE, DETROIT, MICHIGAN 48210, UNITED STATES OF AMERICA.

Inventor : HAROLD EDWARD MCKELVEY.

Application for Patent No. 294/Del/82 filed on 13th April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

14 Claims

Apparatus for sputtering thin films of a selected coating material upon substrates, said apparatus comprising an evacuable coating chamber, at least one cathode mounted horizontally in said coating chamber, magnetic means provided in said cathode, and means in the coating chamber for horizontally supporting the substrates and for transporting them past the magnetic means to receive the sputtering material characterized in that the cathode is an elongated cylindrical tubular member having a layer of the coating material to be sputtered applied to the outer surface thereof; the provision of the magnetic means within said tubular member and of the coating material on the outer surface of said tubular member constituting a sputtering zone extending lengthwise of the cathode and means for rotating said tubular member about its longitudinal axis to bring different portions of the coating material into sputtering position opposite said magnetic means and within said sputtering zone.

Compl. Specn. 19 pages.

Drg. 3 sheets.

CLASS : 206 A.

159896

Int. Cl. : H 01q 3/00.

"PERSONAL RADIO TRANSCEIVER AND ANTENNA COMBINATION."

Applicant : BUDAPESTI RADIOTECHNIKI GYAR, OF 1033 BUDAPEST, POLGAR U. 8-10. HUNGARY, A HUNGARIAN COMPANY.

Inventor : MIHALY NEMET.

Application for Patent No. 493/Del/1982 filed on 30th June, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A personal radio transceiver and antenna combination comprising a housing made at least partially of a conductive material, a high frequency transceiver in the housing, said transceiver having a pair of high frequency terminals, one of said terminals being connected to the conductive material of the housing and the other terminal being isolated from the housing, a resonant main antenna which is

shorter than the quarterwavelength of signals to be transmitted and received by said high frequency transceiver, the main antenna being connected to the terminal isolated from the housing and extending out from one end of the housing, characterised in that a resonant auxiliary antenna, which is shorter than the quarterwavelength, is connected to the conductive material of the housing in location remote from said end and the auxiliary antenna is at an angle from 90° to 180° with respect to the main antenna.

Compl. Specn. 10 pages.

Drgs. 2 sheets.

CLASS : 69 G.

159897

Int. Cl. : H01h 3/04.

"MICROSWITCH PARTICULARLY FOR USE IN ELECTRIC DRIVES OF MACHINES AND MECHANISMS".

Applicant : VSESOJUZNY NAUCHNO-ISSLEDOVATELSKIY, PROEKTNO-KONSTRUKTORSKIY I TEKHNOLOGICHESKIY INSTITUT VZRYVOZASCHISCHENNOGO

I RUDNICHNOGO ELEKTROBORUDOVANIA AND SPETSIALNOE KONSTRUKTORSKOYE BIURO KHARKOVSKOGO ELEKTROAPPARATNOGO ZAVODA.

Inventors : VYACHESLAV GEORGEVICH MIRO-NENKO, ALEXANDR PAVLOVICH POITORAK, VITALY IVANOVICH SCHUTSKY, VLADIMIR ALEXANDROVICH KOSOVTSSEV, FEDOR PETROVICH CHALY, VLADISLAV FEDOROVICH ZAGUBELJUK AND IVANOVICH FILATOV.

Application for Patent No. 503/Del/1982 filed on 5th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

A microswitch particularly for use in electric drives of machines and mechanisms comprising an insulating base, at least one pair of fixed contacts secured on the insulating base, at least one movable contact for selectively contacting the fixed contacts, an actuating member, and means for shifting the movable contacts by the use of the actuating member, said means including an actuating lever, a contact lever, an intermediate lever, and a supporting lever all connected in series with one another, the outer ends of the actuating lever and the supporting lever being pivotally mounted on the insulating base the movable contact and a limit stop for the intermediate lever being mounted on the end of the contact lever opposite to the end connected with an end of intermediate lever, and the actuating lever being connected with the contact lever in the middle portion thereof near the point of its connection with the intermediate lever.

Compl. Specn. 12 pages.

Drgs. 5 sheets.

CLASS : 99 H.

159898

Int. Class : B 65d 7/00, 7/24, 9/00, 9/12, 11/00, 11/18 and B 65j 1/02.

SHIPPING CONTAINER.

Applicant : SCC SIX-IN-ONE CONTAINERS COMPANY SA., A SWISS COMPANY OF 2, RUE CHARLES-BONNET, 1206 GENEVE, SWITZERLAND.

Inventor : MAURICE GOUTILLE.

Application for Patent No. 524/Del/1982 filed on 12th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

11 Claims

A shipping container comprising a plurality of separable components composed of a base, two side panels, a front panel, a back panel which includes at least one door, and a roof, said components being adapted selectively to be interconnected into as assembled unit for shipping cargo or into a collapsed unit capable of being shipped in collapsed form, said container being characterised by :

reinforcement mounted on the sides of the front panel and on the sides of the side panels for making abutting contact in parallel relation with similar re-inforcement on other contiguous panels when the container is assembled;

first coupling means provided on the reinforcement of each side panel and adapted to engage said base and said roof thereby to interconnect said roof, said side panels and said base;

second coupling means permanently mounted on said front panel for connecting said front panel to one or more of said side panels, base and roof; and

said door or doors included in said back panel being pivotally hinged on at least one reinforcement provided on the sides of one or both of the adjacent side panels,

said first coupling means being adapted when said container is in collapsed form to interconnect directly said base and said roof thereby providing a space between said base and roof within which said side panels, said back panel and said front panel are accommodated.

(Complete Specification 17 Pages Drawings Seven Sheets).

CLASS : 70 C(4) & 98 I.

159899

Int. Class : C 23 B — 5/08.

A METHOD FOR PLATING NICKEL ONTO A SILICON BODY.

Applicant : MOBIL SOLAR ENERGY CORPORATION FORMERLY KNOWN AS MOBIL TYCO SOLAR ENERGY CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A. AND HAVING A PRINCIPAL PLACE OF BUSINESS AT 16 HICKORY DRIVE, WALTHAM, MASSACHUSETTS, UNITED STATES OF AMERICA.

Inventors : KIRIT BHAILAL PATEL,
RONALD GONSIORAWSKI.

Application for Patent No. 683/Del/1981 filed on the 21st October, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

19 Claims

A method for plating nickel onto a silicon body wherein said method comprises :

(a) immersing said silicon body in an aqueous bath comprising nickel chloride and either ammonium fluoride or a mixture of ammonium fluoride and hydrofluoric acid, said bath also being free of a chemical reducing agent;

(b) maintaining said silicon body in said bath so that nickel ions in said bath will be converted to solid nickel and deposited onto said silicon body as an adhering layer thereon; and

(c) withdrawing said silicon body from said bath.

(Complete Specification 19 Pages Drawing One Sheet).

CLASS : 70 C4, 206 B & 98 I.

159900

Int. Class : C 23 (B), 5/08, F 24 J—3/02 & H 01 L—7/00.

A METHOD OF MAKING A PHOTOVOLTAIC SEMICONDUCTOR SOLAR CELL.

Applicant : MOBIL SOLAR ENERGY CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, AND HAVING A PRINCIPAL PLACE OF BUSINESS AT 16 HICKORY DRIVE, WALTHAM, MASSACHUSETTS, U.S.A.

Inventors : KIRIT BHAILAL PATEL,
RONALD GONSIORAWSKI

Application for Patent No. 279/Del/1984 filed on the 29th March, 1984. Divisional to application No. 683/Del/1981 filed on the 21st October, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

13 Claims

A method of making a photovoltaic semiconductor solar seller comprising :

(1) forming a silicon semiconductor body of a first conductivity type having a top region of a second conductivity type, said top region being characterized by a top surface having first top surface regions which are coated with silicon oxide and second top surface regions which are free of silicon oxide, said second top surface regions forming a grid pattern on said top region;

(2) immersing said semiconductor body in an aqueous plating bath comprising nickel chloride and a fluoride compound which ionizes in water, said bath also being free of a chemical reducing agent;

(3) maintaining said semiconductor body in said plating bath long enough for a layer of nickel to be adhesively deposited on those second surface regions;

(4) withdrawing said semiconductor body from said plating bath;

(5) washing said semiconductor body with deionized water so as to remove any loose particles from said semiconductor body;

(6) sintering said adhering nickel layer so as to create a nickel silicide junction between said silicon body and said adhering nickel layer; and

(7) removing said silicon oxide from said first surface regions of said semiconductor body.

(Complete Specification 16 Pages Drawing One Sheet).

CLASS : 8, 81.

159901

Int. Cl. : G 08 b 17/00, 17/06, 17/12.

AN IMPROVED FIRE SENSING SYSTEM.

Applicant : SANTA BARBARA RESEARCH CENTRE, A COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF CALIFORNIA, UNITED STATES OF AMERICA, HAVING A PRINCIPAL PLACE OF BUSINESS AT 75 COROMAR DRIVE, GOLFETA, STATE OF CALIFORNIA, UNITED STATES OF AMERICA.

Inventor : MARK THOMAS KERN, AND ROBERT JOSEPH CINZORI.

Application for Patent No. 799/Del/1982 filed on 2nd November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

An improved fire sensing system comprising at least two radiation sensing circuits connected to output gate circuits for generating a first fire suppression output signal in response to

a first predetermined energy threshold sensed by said at least two radiation sensing circuits; characterised in that there is a flash energy responsive inhibit circuit connected to said output gate circuits, said flash energy responsive inhibit circuit responsive to a predetermined ratio of energies in at least two spectral bands characteristic of a selected explosion, said flash energy responsive inhibit circuit inhibiting for a first predetermined time interval the generation of said fire suppression output signal while a flash from an explosion is obscuring the presence of fire after said flash energy responsive inhibit circuit has detected said predetermined ratio of energies; a radiation responsive circuit connected to one of said at least two radiation sensing circuits and said flash energy responsive inhibit circuit; said radiation responsive circuit generating a second fire suppression output signal in response to a second predetermined energy threshold higher than said first predetermined energy threshold; and a timing circuit connected to and energised by said flash energy responsive inhibit circuit for enabling said radiation responsive circuit to generate said second fire suppression output signal at the end of a second predetermined time interval.

(Complete Specification 16 Pages. Drawings 4 Sheets)

CLASS : 70 A. & C

159902

Int. Class : B 01 k 3/00, C 22d 1/02.

ELECTROLYTIC CELL OF THE FILTER PRESS TYPE.

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC.,
A BRITISH COMPANY OF IMPERIAL CHEMICAL
HOUSE, MILLBANK, LONDON SW1P 3JF, ENGLAND.

Inventor : WESLEY THOMAS BOULTON.

Application for Patent No. 826/Wel/1982 filed on 9th November, 1982.

Convention date on 24-11-1981/35403 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

11 Claims

An electrolytic cell of the filter press type comprising a plurality of metallic anode plates and metallic cathode plates arranged in an alternating manner, a substantially hydraulically impermeable cation-exchange membrane and a frame-like gasket of an electrically insulating material positioned between each adjacent anode plate and cathode plate to form in the cell a plurality of separate anode compartments and cathode compartments, the anode plates cathode plates and gaskets each said plate and gasket having four openings therein which in the cell together define four separate compartments lengthwise of the cell and through which the products of electrolysis may be removed respectively from the anode and cathode compartments of the cell,

characterised in that, in order to electrically insulate these compartments lengthwise of the cell from which liquors are charged to and through which products of electrolysis are removed from the anode compartments of the cell from those compartments lengthwise of the cell from which liquors are charged to and through which products electrolysis are removed from the cathode compartments of the cell, there are positioned within and around the peripheries of at least some of the openings in the metallic anode plates and cathode plates frame-like members of an electrically insulating material.

(Complete Specification 28 pages.

Drg. 3 sheets)

CLASS : 128 F 195 C.

159903

Int. Cl. : A-61 m-1/00.

AN IMPROVED ASCITIS VALVE FOR SHUNTING EXCESS SECRETION FORMED IN THE ABDOMEN TO BLOOD STREAM.

Applicant(s) : GHANSHYAM DAS AGRAWAL, an Indian national of Biryaganj, Shahjahanpur-242 001, U. P., India.

Inventor(s) : GHANSHYAM DAS AGRAWAL.

Application for Patent No. 934/Del/1982 filed on 23rd December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims

An improved ascitis valve for shunting excess secretion formed in the abdomen to blood stream comprising a valve housing having a connector at the opposite ends thereof, a seat member disposed within said housing characterized by said seat member having an inlet and outlet end, a spring loaded resilient stopper provided within said housing at the discharge end of said seat member so as to move away or towards the discharge end of said valve seat, a guide pin disposed within said resilient stopper for guiding the displacement of said stopper either away or towards said seat.

Compl. Specn. 8 pages.

Drg. 1 sheet.

CLASS : 144 E.

159904

Int. Cl. : C09d 3/74, 3/76.

"A PROCESS FOR THE PREPARATION OF A CHLOROPRENE BASED PRIMER".

Applicant : CHIEF CONTROLLER, RESEARCH AND DEVELOPMENT, Ministry of Defence, Government of India, New Delhi (India) an Indian national.

Inventors : BODDAPATI SREENIVAS RAO, BAL KRISHNA, PARSHUDHAR GAJANAN CHAUDHARI VIJAY RAMCHANDRA DICHOLKAR.

Application for Patent No. 813/Del/1980 filed on 17th November, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

3 Claims

A process for the preparation of a chloroprene based primer which consists in soaking unmodified chloroprene rubber of solvent soluble rubber in a solvent such as phenolic resin and which is subjected to the step of homogenization, adding a curing agent such as metallic oxides thereto and subjecting the same to the step of milling followed by addition of a known pigment and further milling, adjusting the viscosity by known methods and adding an accelerator such as thioureas thereto.

Compl. Specn. 10 pages.

CLASS : 144 E.

159905

Int. Cl. : C09d 3/74, 3/76.

"IMPROVEMENT IN AND RELATING TO A VINYL BASED PRIMER AND A PROCESS FOR THE PREPARATION THEREOF".

Applicant : CHIEF CONTROLLER, RESEARCH AND DEVELOPMENT, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI (INDIA) AN INDIAN NATIONAL.

Inventors : BODDAPATI SREENIVAS RAO, BAL KRISHNA, PARSHUDHAR GAJANAN CHAUDHARI, VIJAY RAMCHANDRA DICHOLKAR.

Application for Patent No. 669/Del/1983 filed on 27th September, 1983.

Divisional to application No. 813/Del/1980 dated 17th November, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims

A vinyl based primer consisting of vinyl resin, chlorinated rubber and paraffin, a pigment and thinners.

Compl. Specn. 7 pages.

CLASS : 144 E. 159906

Int. Cl. : C09d 3/74, 3/76.

"IMPROVEMENTS IN AND RELATING TO A VINYL BASED VARNISH AND A PROCESS FOR THE PREPARATION THEREOF".

Applicant : CHIEF CONTROLLER RESEARCH AND DEVELOPMENT, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI (INDIA) AN INDIAN NATIONAL.

Inventors : BODDAPATI SREENIVAS RAO, BAL KRISHNA, PARSHUDHAR GAJANAN CHAUDHARI, VIJAY RAMCHANDRA DICHOLKAR.

Application for Patent No. 670/Del/1983 filed on 27th September, 1983.

Divisional to application No. 813/Del/1980 dated 17th November, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A vinyl based varnish consisting of vinyl resin, chlorinated paraffin and a thinner.

Compl. Specn. 7 pages.

CLASS : 32 E. F₃ (a). 159907

Int. Cl. : C 07 c69/00, C 08 f 15/00.

"PROCESS FOR PREPARING AN UNSATURATED HOMOPOLYMERIZABLE AND/OR COPOLYMERIZABLE POLYESTERS".

Applicants : BASF FARBEN- u. FASERN AKTIENGESELLSCHAFT, A GERMAN COMPANY OF AM NEUMARKT 30, 2000 HAMBURG 70, FEDERAL REPUBLIC OF GERMANY.

Inventors : GUNTHER HEGEMANN and KARIN MIEDECK.

Application for Patent No. 507/Del/83 filed on 25th July, 1983.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A process for preparing an unsaturated homopolymerizable and/or copolymerizable polyester comprising condensing at least partly polyhydric alcohols of the kind such as herein described and at least partly polyhydric carboxylic acids of the kind such as herein described and, if appropriate, hydroxy-carboxylic acids of the kind such as herein described or

derivatives thereof capable of ester formation in the presence of maleic acid, fumaric acid, itaconic acid, mesaconic acid and/or aconitic acid or derivatives thereof capable of ester formation; and hydroxylated polybutadiene to take the place of some of the alcohols and having a mean molecular weight of 2,400 to 3,000 and a hydroxy functionality of 2.2 to 2.4.

Compl. Specn. 17 pages.

Drgs. 6 sheets.

CLASS : 195 D

159908

Int. Cl. : F 16 K-1/00.

A ROTARY VALVE.

Applicant : GENERAL SIGNAL CORPORATION, A ORGANISED UNDER THE LAWS OF NEW YORK, U.S.A., OF HIGH RIDGE PARK-BOX 10010, STAMFORD, CONNECTICUT 06904, U.S.A.

Inventor : ANTHONY CHARLES SUMMERS.

Application for Patent No. 524/Del/1983 filed on 30th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A rotary valve comprising a body having a flow passage therein, an annular circumferential recess in said body for receiving a valve seat, said recess incorporating a lip extending radially inwards of said recess from said body and into said flow passage, a bore provided in said body with its axis transverse to the axis of said flow passage, a rotatable closure member provided in said flow passage, said closure member being provided with a hub having a bore provided therein a shaft located in the bores of said hub and said body for rotatably mounting said closure member with respect to said body, said closure member being further provided with a circumferential region for engaging and forming a seal with said valve seat in said annular circumferential recess, locator means provided about said shaft and extending between said closure member and said valve for locating said closure member in said flow passage along the axis of said shaft, characterised in that said hub is provided with an extension parallel to the axis of said shaft, said extension extending from a point within the circumference of said circumferential sealing region to a point beyond the lower edge of said radially extending lip whereby the length of said locator means along the axis of said shaft is less than the length of said lip along the axis of said shaft.

Compl. Specn. 11 pages.

Drg. 1 sheet.

CLASS : 93 & 129 G.

159909

Int. Cl. : B 22 f-9/00.

"METHOD AND APPARATUS FOR PRODUCTION OF ATOMIZED METAL".

Applicant : ALUMINIUM COMPANY OF AMERICA, A CORPORATION ORGANISED UNDER THE LAWS OF STATE OF PENNSYLVANIA, U.S.A. OF ALCOA BUILDING, PITTSBURGH, STATE OF PENNSYLVANIA UNITED STATES OF AMERICA. MANUFACTURERS.

Inventors : ALBERT DAVID BOOZ, KALMAN EDWARD BUCHOVETSKY, WALTER STANLEY DEBULAK, RAY ALLEN KUCHERA, DAVID DARELL WHITTE, DANIEL ROBERT BARCH, ADAM JOHN SARTSCHEV, ROBERT ALLEN RAMSER and JOHN BASIL KAPUSTAY.

Application for Patent No. 575/Del/1983 filed on 24th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

36 Claims

A method for the production of atomised metal such as herein described comprising the steps of :

- (a) providing a source of molten metal;
- (b) introducing said molten to a containment vessel in finely divided particles, introducing atomizing gas and molten metal in said vessel through its nozzle sealed to the end wall or a side wall of said vessel;
- (c) introducing a collecting gas into said vessel using gas introduced thereto through a gas ingress port spaced from said endwall in said vessel to cool and sweep said finely divided particles, and
- (d) sweeping from said vessel said collection gas and said atomized metal particles through said exit port into a separator, whereby said collection as is drawn into said vessel and said collection gas sweeps said atomized metal particles from said vessel in to said separator without said atomized gas coming into contact with fans or blowers of said vessel.

Apparatus for the production of atomized metal, which comprises :

- (a) a containment vessel having a sidewall terminating in an endwall;
- (b) nozzle means in said endwall, said nozzle means being connectable to an external source of atomizing gas and molten metal; and
- (c) an ingress port in said containment vessel for admitting a source of collecting gas to sweep metal particles from said containment vessel, said containment vessel being essentially sealed with respect to the area in which said nozzle means are located whereby said particles within said vessel are isolated from the external area adjacent said nozzle means.

Compl. Specn. 23 pages.

Drgs. 2 sheets.

CLASS : 179 B.

159910

Int. Cl. B67d-5/00.

"APPARATUS FOR FILLING DISPENSING CONTAINER, PREFERABLY CYLINDRICAL DISPENSING CONTAINERS WITH A LIQUID OR PASTY PRODUCT".

Applicant : COLGATE-PALMOLIVE COMPANY A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, OF 300 PARK AVENUE, NEW YORK 10022, UNITED STATES OF AMERICA.

Inventor : HANS HERBERT TRENNER.

Application for Patent No. 595/Del/1983 filed on 30th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

An apparatus for filling dispensing container, preferably cylindrical dispensing container, with a liquid or pasty product, said apparatus comprising a filling station having a filling tube movable in relation to one of said dispensing containers to be filled, a prechamber connected to an upper end of said filling tube, said prechamber containing said product for filling in said dispensing container, characterised in that a telescopic tube is located coaxially within said filling tube and is reciprocable therein, an upper end of said telescopic tube being in communication with said prechamber, said telescopic tube upper end having a piston, sealing means being provided between said piston and said filling tube to sealinely guide said piston in said filling tube, a lower end of said telescopic tube extending through an opening in a ring disk covering a lower end of said filling tube, a restoring spring having a tension less

than a filling pressure of the product to be filled but able to overcome frictional forces of said telescopic tube when said pressure is removed on termination of filling, said spring being located between said piston and said ring disk in said filling tube

Compl. Specn. 9 pages.

Drgs. 3 sheets.

CLASS : 62-C.

159911

Int. Cl. : C 09 b 67/00.

STABLE AQUEOUS LIQUID COMPOSITION OF REACTIVE DYES CONTAINING β -SULFATOETHYL-SULFONYL GROUPS AND METHOD OF PRODUCING THE SAME.

Applicant : AMERICAN HOECHST CORPORATION, ROUTE 202—206 NORTH SOMERVILLE, NEW JERSEY 08876, UNITED STATES OF AMERICA.

Inventor : 1. ANTHONY J. CORSO.

Application No. 105/Cal/84 filed February 15, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

25 Claims

An aqueous, liquid fiber-reactive dye composition which is resistant to decomposition on storage, consisting essentially of : 5 to 45% by weight of a water-soluble, fiber-reactive dyestuff having from 1 to 3-SO₂CH₂CH₂-OSO₂M groups, in which M is a hydrogen atom or an alkali metal or the equivalent of an alkaline earth metal, or a mixture of such dyestuffs; 0 to 10% by weight of water-soluble inert inorganic salt; and 45 to 95% by weight of water; said liquid dye composition having a pH of 2.5 to 4.5 and being substantially free of buffer substances.

Compl. Specn. 14 pages.

Drgs. 6 sheets.

CLASS : 151-E.

159912

Int. Cl. : H 01 j 41/00.

A METHOD AND A DEVICE FOR PRODUCING AN INNER TUBE WITH TRANSVERSE RIBS FOR A DOUBLE WALLED SPECIAL GAS DISCHARGE TUBE WITH A HIGH ANGLE SELECTIVITY.

Applicant : VEB KOMBINAT FEINMECHANISCHE WERKE HALLE, DDR-402, HALLE, RUDOLF-BREITSCHEID-STR. 71 GERMAN DEMOCRATIC REPUBLIC.

Inventors : 1. LOTHAR NOLTE, 2. UDO ROSFLT, 3. DR. MANFRED POHLER.

Application No. 162/Cal/84 filed March 6, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A method for manufacture of an inner tube, with transverse ribs or splines, of a double-walled special gas discharge tube of high angle selectivity, preferably for CO₂ lasers with axial gas discharge of high strength made of smooth cylindrical tubes of silicate materials for example, rasotherm or quartz glass. The silicate materials used capable of being heated by normal known methods by means of suitable heat sources, namely gas burners, to such an extent that it can be moulded in the plastic condition which is characteristic by the following steps :

the introduction of preferably an inner forming tool which consists of more than one part and which is sprayed with an anti-adhesive material, into the smooth glass tube which is being formed. There is a clearance fit between the outershell of the tool and the inner wall of the glass tube;

Clamping of the glass tube with the inner forming tube on a glass maker lath in such a way, that the inside forming tool is fixed and the glass tube which is being formed, can revolve about its axis;

Heating of the glass tube at one end starting from the area of the first rib to the transformation temperature;

Forming of at least the first two ribs by means of a non-driven outer forming tool with a circular cross section is made of a suitable material (graphite) this tool is mounted in such a way that it can be shifted and tipped parallel to the axis of the rotation of the glass tube being formed, the outer shell of the forming tool has at least two ribs with a form which is complementary to the inner forming tool, introduction of the outer forming tool uniformly against the walls of the glass tube being formed so that the forming tool also starts revolving due to the adhesive friction and meshes with the corresponding splines or ribs of the inner forming tools, forming of the complete glass tube in such a way, that after heating of the tube shell in the region of the next rib to the transformation temperature, the outer forming tool is always pushed forward in the working direction by one rib, whereby at least one rib of the outer forming tool is led into the space already formed, the glass tube being formed is held at an almost high constant temperature during the complete process in the region of the already formed splines which temperature is a little below the transformation temperature of the material used, the inner forming tool after completion of this temperature is dismantled and removed from the tube so that the finished inner tube of the special glass discharge tube can be cooled and stress-relieved in the normal way.

Compl. Specn. 14 pages.

Drgs. 2 sheets.

CLASS : 15-B & C.

159913

Int. Cl. : F 16 c 19/00.

PULVERIZER JOURNAL BEARING SYSTEM.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventors : 1. FRANK JOSEPH PASKOWSKI, JR.
2. PETER LEONARD STANWICKS.

Application No. 164/Cal/84 filed March 7, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A journal bearing system operative for providing bearing support for a pulverizer roll in a bowl mill comprising :

- (a) a journal shaft embodying a multiplicity of portions of differing diameters;
- (b) a first housing member supported in surrounding relation to said journal shaft;
- (c) a second housing member supported in surrounding relation to said journal shaft;
- (d) a third housing member supported in surrounding relation to said journal shaft;
- (e) first bearing means supported at a first location along the length of said journal shaft in juxtaposed relation to a first portion embodying a diameter of a first dimension of said journal shaft, said first bearing means being interposed between said first

housing member and said first portion of said journal shaft;

- (f) second bearing means supported at a second location along the length of said journal shaft in juxtaposed relation to a second portion embodying diameter of a second dimension of said journal shaft, said second bearing means being interposed between said second housing member and said second portion of said journal shaft.

- (g) oil seal means supported at a third location along the length of said journal shaft in juxtaposed relation to a third portion embodying a diameter of a third dimension of said journal shaft, said oil seal means being interposed between said second housing member and said third portion of said journal shaft; and

- (h) air seal means supported on said third housing member and in juxtaposed relation to said second housing member, said air seal means being operative to effectuate control over seal air pressure.

Compl. Specn. 31 pages.

Drg. 1 sheet.

CLASS : 158-D.

159914

Int. Cl. : B 61 d 15/00; B 61 j 3/00.

AN APPARATUS FOR PUSHING APART RAIL VEHICLES.

Applicant : HOESCH WERKE AKTIENGESELLSCHAFT OF EBERHARDSTRASSE 12, 4600 DORTMUND 1, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. BRUNO RAFFENBERG.

Application No. 165/Cal/84 filed March 7, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

An apparatus for pushing apart railway vehicles, comprising :

an expander means having two expander arms, each expander arm comprising a re-railing bridge, a pivot arm coupled to one end of the re-railing bridge, and a grab claw mounted to the other end of the re-railing bridge, wherein the expander arms are pivotally coupled to one another by a pivot pin; two guide means having upper and lower guide members, each guide means is slidably mounted on a different expander arm; two lifting means are transversely mounted across the expander arms by the guide means for opening and closing the pivotable expander arms of the expander means;

two displacement cylinders, each displacement cylinder having one end that is mounted to one of the guide means and another end that is mounted to one of the expander arms, wherein the displacement cylinders are used to longitudinally position the guide means and therefore the lifting means along the expander means; and

a source of fluid under pressure having a pump that is fluidically coupled to the lifting means and the displacement cylinders through a control panel and hoses for controlling the operating of the lifting means and the displacement cylinders.

Compl. Specn. 7 pages.

Drgs. 4 sheets.

CLASS : 116-II.

159915

Int. Cl. : B 66 c 21/00.

TRAVELLING WINCH CABLE HOISTING MECHANISM WITH OSCILLATION DAMPING.

Applicant : FRIED KRUPP GESELLSCHAFT MIT BESCHARANKTER HAFTUNG, OF ALTENDORFER STRASSE 103, D-4300 ESSEN 1, FEDERAL REPUBLIC OF GERMANY.

Inventor : HERBERT KURZ.

Application No. 197/Cal/84 filed March 22, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A cable hoisting mechanism of a crane, especially of a container crane, with two travelling winches adjustable in spacing or distance relative to each other, which for oscillation damping provide inclined cables connected with the load for oscillation damping and diverging upwardly in the travel-direction plane, comprising :

a further travelling winch arranged between two auxiliary travelling winches;

hoisting cable means essentially vertically engaging said travelling winches and

a device for holding taut the inclined cables provided therewith.

Compl. Specn. 17 pages.

Drg. 6 sheets.

CLASS : 190-A & B.

159916

Int. Cl. F 01 d 1/00, 13/00; F 02 c 7/00.

COMBINED GAS TURBINE/STEAM TURBINE PLANT HAVING A COAL GASIFICATION PLANT CONNECTED UPSTREAM THEREOF.

Applicant : PRAFTWERK UNION AKTIENGESELLSCHAFT, OF 433 MULHEIM (RUHR), WISENSTR. 35, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. BERNARD BECKER, 2. KONRAD GOEBEL.

Application No. 295/Cal/84 filed May 2, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A combined gas turbine/steam turbine plant comprising a gas turbine unit and a steam turbine unit wherein the waste gas line of the gas turbine unit (which gas turbine unit comprises air compressor, combustor, gas turbine and generator) is connected to the primary side of a steam generator which in turn is part of the steam turbine unit (which steam turbine unit comprises in addition a high-pressure and low-pressure turbine, a condenser, a feed-water reservoir and a feed-water pump); wherein the combustor of the gas turbine unit is connected to the outlet of a coal gasification plant including an air-separation unit having an outlet for separated nitrogen and including a gasifier downstream of which are connected a steam generator for utilizing crude gas heat and a heat exchanger for heating purified gas by heat exchange with the crude gas, the steam generator, which is upstream of the crude gas/purified gas heat exchanger, being a high pressure steam generator whose secondary-side outlet is connected to the outlet of the steam generator of the steam turbine unit; wherein a low-pressure steam generator, the secondary-side outlet of which is connected to the low-pressure turbine of the steam turbine unit, is connected to the crude gas/purified gas heat exchanger, downstream thereof; and wherein

the nitrogen outlet of the air-separation unit of the coal gasification plant is connected to a purified gas line leading to the combustor of the gas turbine unit and/or to the burners of the combustor of the gas turbine unit.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 32-F.aj.

159917

Int. Cl. : C 07 c 87/62.

SINGLE-VESSEL PROCESS FOR PREPARING RING-SUBSTITUTED N-ALKYLANILINES.

Applicant : HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

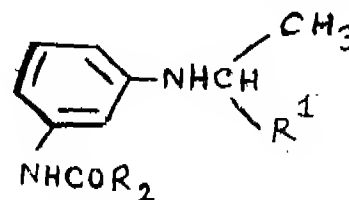
Inventors : KARL SOMMER, 2. RUDOLF SCHICKFLU.

Application No. 305/Cal/84 filed May 7, 1984.

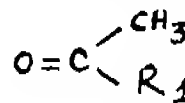
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

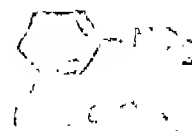
A process for preparing ring-substituted N-alkylanilines of the formula (1) of the accompanying drawing



in which R_1 and R_2 each denote methyl or ethyl, in a single vessel, which comprises acylating m-nitroaniline in an excess of an aliphatic carbonyl compound of the formula (2)



in which R_2 is as defined above, with an acylating agent which contains the $-CO-R_2$ acyl radical—which is transferred—and reductively alkylating the resulting compound of the formula (3)



in which R_2 is as defined above, at temperatures of 120-160°C under a hydrogen pressure of 20-150 bar without intermediate isolation, through the presence of an acid reaction promoter and of a nickel catalyst.

Compl. Specn. 7 pages.

Drg. 1 sheet.

CLASS : 27-G.

159918

Int. Cl. : E 04 b 1/00.

FUNCTION PLATE TO FORM A POLYGONAL GEODESIC STRUCTURE.

Applicant : OY STARPLATE LTD., OF KIVITORPANTIE 3, 00300 HELSINKI, FINLAND.

Inventor : 1. ULRICH SICLAFF.

Application No. 326/Cal/84 filed May 14, 1984.

CLASS : 85-P; 141-C.

159920

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

Int. Cl. : C 04 b 7/32; F 27 b 15/18.

7 Claims

A junction plate (10) formed by stamping from a metal disk and for securing a plurality of main struts (50) together to form a polygonal geodesic structure, the junction plate (10) comprising :

- a flat central portion (14);
- a skirt portion (17) of the plate (10) formed into a generally frusto-conical shape extending from the periphery of the plate to the central portion (14);
- a plurality of main strut channels (18) formed intended into the skirt portion (17) of the plate extending radially outward from the central portion (14), each of the main strut channels (18) bent relative to the central portion (14) by an angle selected so that the channels (18) are generally parallel to the main struts (50);

an auxiliary strut channel (30) formed intended into the skirt portion (17) between each of the main strut channels (18), the auxiliary strut channels (30) being bent at an angle relative to the central portion (14) so as to be generally parallel to the adjacent face of the polygonal geodesic structure so that an auxiliary strut (52) inserted to support that face can be easily secured in the auxiliary strut channel (30) of the plate with a minimum of shaping to the auxiliary strut (52).

Compl. Specn. 13 pages.

Drgs. 3 sheets.

CLASS : 116-C.

159919

Int. Cl. : B 65 g 17/00.

A THROUGH MEMBER FOR A SCRAPER-CHAIN CONVEYOR, PARTICULARLY FOR USE IN MINING OPERATIONS.

Applicant : GEWERKSCHAFT EISENHUTTE WESTFALIA, OF D-4670 LUNEN, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DIETER GRUNDKEN, 2. MANFRED REDDER, 3. FRANZ ROLING, 4. MICHAEL SAUER, 5. GUNTHER-DIETMAR SCHOOP.

Application No. 454/Cal/84 filed June 28, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

22 Claims

A trough member for a scraper chain conveyor, particularly for use in mining operations, and comprising a conveyor base arranged between lateral profiles, which each comprises an upper flange directed towards the middle of the trough, a lower flange and an intermediate flange, each pair of which accommodate the conveyor base between them, and each lateral profile consisting of a lower profiled bar, which forms the scraper guide in the lower run and the lower flange of the lateral profile, and of an upper profiled bar which is connected to the lower profiled bar and which acts as the scraper guide in the upper run and is provided with the upper flange of the lateral profile, characterized in that the lower U-section bar (5) of the lateral profile (1) has a top flange (9) which is produced integrally therewith is parallel to the lower flange and forms the intermediate flange of the lateral profile, which top flange serves as a bearing face for the upper profiled bar (6, 7) likewise consisting of a rolled U-section, and in that a connecting bar (22), serving to provide lateral support for the upper profiled bar, is secured at the exterior of the lower profiled bar and projects upwardly beyond the top flange (9) of the lower profiled bar.

Compl. Specn. 29 pages.

Drgs. 4 sheets.

METHOD OF AND APPARATUS FOR CALCINING ALUMINIUM HYDRATE.

Applicant : VSESOIUZNY NAUCHNO-ISSLEDOVATELSKY I PROEKTNY INSTITUT ALUMINIEVOI MAGNIEVOI ELEKTRODNOI PROMYSHLENNOSTI, OF LENINGRAD, SREDNY PROSPEKT, 86, USSR.

Inventors : 1. BORIS LVOICH SHAMUILOV, 2. GERMAN ABRAMOVICH KALM, 3. GARRY VLADIMIROVICH TELYATNIKOV, 4. ANATOLY BORISOVICH KARPOV, 5. EDUARD LYOVICH YAGUD, 6. VIKTOR PROKHOROVICH LYAKHOV, 7. NIKOLAI IVANOVICH GORSHKOV, 8. NIKOLAI IVANOVICH PETRAKOV.

Application No. 593/Cal/84 filed August 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A method for calcining of aluminium hydrate, comprising aluminium hydrate calcination by way of suspension drying and dehydrating aluminium hydrate, feeding dehydrated material into the charging zone of the calcining space, and subsequently calcining dehydrated material in a fluidized bed to obtain alumina in the discharging zone of the calcining space, with the fluidized alumina moving in a controlled flow from the charging section of the calcining zone to the discharging section thereof, the calcining process being conducted with the ratio of the alumina fluidizing rate in the discharging section to the alumina fluidizing rate in the charging section being within the range of 10 to 40.

Compl. Specn. 22 pages.

Drgs. 2 sheets.

CLASS : 39 C & 72 B.

159921

Int. Cl. : C 01 C-1/18.

"A METHOD FOR THE PRODUCTION OF STABILIZED AMMONIUM NITRATE COMPOSITIONS".

Applicant : NORSK HYDRO A. S., a Norwegian company, of Bygdy alle 2, OSLO 2, Norway.

Inventors : OLAV KJOHL, ELLEN BREKKE & ARNE OLAV EGNER.

Application for Patent No. 624/Del/1983 filed on 08th September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

Method for the production of stabilized ammonium nitrate compositions stabilized against swelling and breakdown by thermal cycling which comprises coating by any known method ammonium nitrate particles with from 0.05% to 1.0% by weight of porous silicon dioxide particles having a surface of from 150 to 400 m²/g and a pore size of from 100 to 300 angstroms.

Compl. Specn. 13 pages.

CLASS : 71E

159922

Int. Cl. : F02f 3/48.

"A METHOD FOR THE MANUFACTURE OF A SHOE FOR A DRAGLINE".

Applicant : KRISHNASWAMY RANGASWAMY, an Indian national of A-6, East Nizammudin, New Delhi-110 013, India.

Inventor : KRISHNASWAMY RANGASWAMY.

Application for Patent No. 651/Del/1983 filed on 20th September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

A method for the manufacture of shoe for a dragline, comprising a bottom metal plate, a top metal plate and a plurality of spaced vertical diaphragms of metal plates of the same size provided between the said plates and welded to the plates the method being characterized in that the top plate is provided in the form of a plurality of segments, a flange is fixed horizontally to the upper end of each diaphragm, each segment is supported on its longitudinal sides over the flanges on adjacent diaphragms and the segments are welded on their longitudinal sides to the said flanges.

Compl. Specn. 12 pages.

Drg. 1 sheet.

CLASS : 32 F_a (a).

159923

Int. Cl. C 07 c 67/00, 69/00.

"A PROCESS FOR THE PREPARATION OF AN ESTER OF LAURYL ALCOHOL AND PALMITIC ACID FOR USE AS FLOW IMPROVER".

Applicant : OIL & NATURAL GAS COMMISSION, 7th Floor, Bank of Baroda Building, Parliament Street, New Delhi-110 001, India, a Government of India Undertaking.

Inventor : KISHAN ILAL GOYAL, TRILOK CHAND and PARAM JEET SINGH.

Application for Patent No. 692/Del/83 filed on 7th October, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A process for the preparation of an ester of lauryl alcohol and palmitic acid for use as flow improver or pour point depressant in waxy petroleum crude which comprises in esterifying lauryl alcohol with palmitic acid in the ratio by weight of alcohol to acid 1 : 1 at a temperature of 40 to 80°C for a period of 4 to 6 hours in the presence of known catalyst.

Compl. Specn. 8 pages.

Drg. 1 sheet.

CLASS : 129 Q and 150 E

159924

Int. Cl. : B 23 p—3/09 and F 16 1—17/00, 19/00.

METHOD OF JOINTING PIPELINES BY EXPLOSIVE WELDING.

Applicant : JAN DELERSJO, OF PL. 3498, 439 00 ÖNSALA SWEDEN, SWEDISH CITIZEN.

Inventor : DELERSJO, JAN.

Application for Patent No. 717/Del/1983 filed on 26 Oct 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A method of jointing pipelines by explosive welding by means of jointing pipe or jointing piece, which is attached to the outside of pipes to be jointed, whereafter the ends of said pipes are explosive welded against the jointing pieces, characterized in that the pipe ends are positioned spaced

apart in the jointing piece which jointing piece in a manner known *per se* is provided with radially inwardly projecting flanges at its respective ends where the inner diameter of the flanges corresponds to the outer diameter of the pipe ends, and which jointing piece has a greater inner diameter between said flanges than the inner diameter of the flanges, and in that the pipe ends by means of two explosive charges, one in each pipe end, which charges are caused to detonate simultaneously, are expanded towards and are explosive welded against the inner wall of the jointing piece, where said expansion is caused to take place in connection to and inside of said flanges, whereby in addition a mechanical joint between each pipe end and the jointing piece is obtained.

Compl. specn. 10 pages.

Drg. 2 sheets

CLASS : 206 E

159925

Int. Cl. : H 01 1 11/00 & G 05 f 1/00.

A THYRISTOR.

Applicant : LA TELEMECANIQUE, A LIMITED LIABILITY COMPANY, OF 33 BIS, AVENUE DU MARECHAL-JOFFRE, 92000 NANTERRE, FRANCE.

Inventor : PHILIPPE LETURCO.

Application for Patent No. 796/Del/83 filed on 29th November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A thyristor comprising a body of semi-conductor material having four regions of alternating type conduction of P or N regions, said regions being :

a first emitter region, a first base region adjacent said first emitter region forming a first junction with the first emitter region;

the first base region being subdivided into several zones connected electrically together by inhibition gate contacts and a second base region forming a second junction with the first base region, the first emitter region, the first base region and the second base region together forming a first transistor section;

a second emitter region forming a third junction with the second base region, said second base region and the second emitter region together forming a second transistor section, cathode contact means coupled to the first emitter region, gate contact means coupled to the first base region and anode contact means coupled to the second emitter region;

a source of a/c supply voltage connected across the said anode contact means and cathode contact means;

switch means connecting the said cathode contact means to the said gate contact means for establishing a short circuit across said gate contact means and cathode contact means when the said switch means are closed, the said gate contact means being unconnected when the said switch means are open;

the said thyristor being fired at room temperature when the said a/c supply voltage is applied, the said short circuit means are open and the said gate contact means are unconnected, at every passage of the amplitude of the said a/c supply voltage through zero.

Compl. specn. 18 pages.

Drg. 6 sheets

CLASS : 70C, 39K

159926

Int. Cl. : C22d—5/00.

AN ELECTROLYTIC PROCESS FOR THE PREPARATION OF HIGH PURITY BORIC ACID FROM BORAX SOLUTION.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor: BHAGWAN SHANKARRAO JOSHI GAURANG SHAMBHUPRASAD TRIVEDI AND KOTTEYIL PAZHANIANDI GOVINDAN.

Application for Patent No. 804/Del/1983 filed on 1st December, 1983.

Complete specification left on 8th January, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

An electrolytic process for the preparation of high purity boric acid from borax solution which comprises carrying out the electrolysis in a cell having borax solution as electrolyte, a stainless steel cathode, an anode, like graphite, precious metal oxide coated titanium or zirconium both housed in a rigid polymeric block, a cation exchange membrane fixed on the cathode side and an anion exchange membrane fixed on the anode side of the polymeric block, thus forming three compartment, circulating dilute solutions of caustic soda, saturated solution of borax and dilute solution of sulfuric acid, through the cathode compartment, middle compartment and anode compartment respectively, removing the boric acid from the anode compartment and cooled.

Compl. specn. 15 pages.

Drg. 6 sheets

Provisional specification 7 pages.

CLASS : 80 H

159927

Int. Cl. : BO 3 d—1/00.

A FLOTATION DEVICE FOR REMOVAL OF IMPURITIES FROM A SLURRY.

Applicant : DEWAN KRAFT SYSTEMS PVT. LTD., OF N-127 GREATER KAILASH-I, NEW DELHI-110048, INDIA, AN INDIAN COMPANY.

Inventors : USHA DEWAN.

Application for Patent No. 82/Del/1983 filed on 5th December 1983.

Complete specification left on 16th January, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A flotation device for removal of impurities from a slurry which comprises a tank, at least one inlet provided at one end of said tank for introduction of the slurry, a discharge box at the opposite end of said tank for discharge of the purified slurry, a known froth remover provided along said tank for removal of the froth, cells being formed inside the tank by partition walls extending from the top and terminating above the base of the tank to allow flow communication between the cells, each cell having an aeration unit located inside the cell.

Provisional specification 5 pages.

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 48 D₁

159928

Int. Cl. : HO 1 b—17/02, 17/14.

DEAD END INSULATOR.

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, 18-20, KASTURBA GANDHI MARG, NEW DELHI-110001.

Inventors : CHANDRASHEKAR SIDDALINGAPPA SHETTAIR AND KATTAIR RAMASWAMY NARANASWAMY.

Application for Patent No. 837/Del/1983 filed on 14th December 1983.

Complete specification left on 23rd April 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A dead end insulator for high voltage transmission and distribution lines comprising a circular porcelain shell, a cast iron clevis cap secured around a projection on the shell and a dead end clamp one end of which is located within the said projection and secured thereto, the other end of the clamp being forked, the arms of the fork being substantially heart shaped and connected together by a bridge having a peripheral groove which has a thorough central bore.

Provisional specification 3 pages.

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 84 D

159929

Int. Cl. : CI 01 1/00.

A DISTILLATE FUEL COMPOSITION.

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, OF FLORHAM PARK, NEW JERSEY, U.S.A.

Inventors : FRANCO ROSSI, JAN JOSEF PEETER DE GREEF AND NORMAN ANTHONY RICHARDSON.

Application for Patent No. 859/Del/83 filed on 23rd December, 1983.

Convention date 4th January, 1983/8300016/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A distillate fuel composition which comprises a distillate fuel whose 20% and 90% distillation point differ by 65 to 100°C and/or whose 90% to final boiling point is 10 to 20° and from 50 to 500 ppm of a copolymer of ethylene and a vinyl ester of a carboxylic acid containing 1 to 4 carbon atoms containing 32 to 35 wt % of the vinyl ester and having a number average molecular weight of 1000 to 6000.

Complete specification 23 pages.

CLASS : 195 D

159930

Int. Cl. : F 16 k 3/00.

"A GATE VALVE."

Applicant : ROBERT GEORGE TIPTON, A U.S. CITIZEN, OF ROUTE 1, MACOMB, OKLAHOMA 74852, UNITED STATES OF AMERICA.

Inventor : ROBERT GEORGE TIPTON.

CLASS : 81 + 173A

159932

Application for Patent No. 860/Del/83 filed on 26th December, 1983.

Int. Cl. A62c—37/06, 37/08.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

VALVE MEANS FOR SEALING THE FLUID SUPPLY ORIFICE IN A SPRINKLER HEAD BODY.

9 Claims

A gate valve comprising a valve body having a bore extending thereto, a fluid flow passageway extending transverse to said bore and opening on opposite sides of said body, a gate reciprocal in said bore and having a fluid opening therein, valve seat rings mounted in said valve body one on each side of the gate, for sealing engagement with the sides of the gate and with the body adjacent said fluid passageway and means for moving the gate from one position in which the opening is in alignment with, and another position in which it is sealed with respect to, said fluid passageway tubular adapters detachably mounted in sealing engagement with said opposite sides of said valve body and a coupling portion for connection to a pipe end and the valve seat rings being engaged in the inner ends of said adapters, said tubular adapters including sleeve portions which fit closely within said fluid passageways and counter bores in said sleeve portions which end in shoulders in that the valve seat rings being located in said counterbores, with one end projecting into the bore to engage the gate and the other end sealingly engaging the annular shoulder.

Compl. specn. 16 pages.

Drg. 2 sheets

CLASS : 83 B₆ [XIV(5)]

159931

Int. Cl. : A 23 k 1/00.

TEXAS A & M UNIVERSITY SYSTEM.

AN IMPROVED PROCESS FOR THE PREPARATION OF PROTEIN ISOLATES FROM VEGETABLE PROTEIN SOURCES.

Applicant : TEXAS A & M UNIVERSITY SYSTEM, OF COLLEGE STATION, TEXAS 77840, UNITED STATES OF AMERICA, INCORPORATED UNDER THE LAWS OF STATE OF TEXAS, UNITED STATES OF AMERICA.

Inventor : LAWRENCE A. JOHNSON AND HWEI-MEI WEN.

Inventor : LAWRENCE A. JOHNSON AND HWEI-MEI WEN.

Application for Patent No. 864/Del/83 filed on 28th Dec., 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

An improved process for the preparation of protein isolates from a vegetable protein source, comprising the steps of :

- (a) extracting said vegetable protein source with alkali in the presence of an alkali metal borohydride such as herein described to produce a spent vegetable protein source phase and an aqueous protein extract phase, said alkali metal borohydride being present in an amount of from 20 to 500 ppm based on the combined weight of the protein source and alkaline solution, to improve the color, palatability and/or nutritional characteristics of the resulting protein isolate;
- (b) acid precipitating in any known manner protein from said aqueous protein extract phase; and
- (c) recovering in any known manner the precipitated protein of step (b) in the form of a protein isolate.

Complete specification 28 pages.

Inventor : BARRY FRANCIS BYRNE.

Application No. 269/Bom/1984 filed on 26th September, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

Valve means for sealing the fluid supply orifice in a sprinkler head body, which comprises a sealing plug such as herein described provided with a projection facing towards said orifice when said plug is assembled upon the said body, and a flexible and resilient membrane having an annular portion positioned over said projection to capture the said plug and serving to seal closed said orifice when compressed between the said plug and the said body and the said membrane also having a tail portion on the said annular portion attachable to the said body to deflect the said plug out of the path of a fluid jet issuing from said orifice when said orifice is opened.

Compl. specn. 6 pages.

Drg. 2 sheets

CLASS : 170 D

159933

Int. Cl. : C 11 d—9/50.

PROCESS FOR PREPARATION OF TRANSPARENT DETERGENT BARS.

Applicant : HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : (1) STEPHEN ANDERSON, (2) JOHN MARTIN BEHAN & (3) TERENCE ALLAN CLARKE.

Application No. 282/Bom/1984 filed October 15, 1984.

U.K. Convention priority date October 14, 1983.

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A process for preparing a detergent bar composition having a transparent phase structure, 0.1 to 10% by weight of deodorant composition such as herein defined having a result of 0.5 to 3.5 deodorant test value as herein described and 1 to 30% by weight of rosin based on the weight of the detergent bar composition, comprising subjecting oil or fat to saponification using alkali in the presence of rosin followed by adding said deodorant to the product of saponification and working the mixture in a conventional manner into a soap bar.

Compl. specn. 16 pages.

Drg. Nil

CLASS : 188

159934

Int. Cl. : C 23 f 7/10, 7/14.

PHOSPHATING COMPOSITION USEFUL IN THE FORMATION OF PROTECTIVE COATING ON METAL SURFACE.

Applicants : PYRENE CHEMICAL SERVICES LIMITED, RIDGEWAY, IVER, BUCKINGHAMSHIRE SLO 9JJ, GREAT BRITAIN.

Inventors : 1. GEORGE L. HIGGINS, 2. LESLIE PARSONS.

Application No. 285/Bom/1984 filed October 17, 1984.

U.K. Convention Priority date November 29, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

12 Claims

A phosphating composition useful in the formation of protective coatings on zinc or iron surfaces comprising 0.5 to 5 parts zinc, 1 to 20 parts phosphoric acid, 0.01 to 0.5 parts of an additive selected from cobalt and nickel and 0.2 to 1.5 parts of non-blistering accelerator and a solvent such as herein described, wherein all the parts being by weight, the said composition optionally containing non-ionic surfactant.

Compl. specn. 9 pages.

Drg. Nil

CLASS : 188

159935

Int. Cl. : C 23 f—7/10, 7/14.

A COMPOSITION USEFUL IN FORMATION OF PROTECTIVE COATING ON METAL SURFACE AND A PROCESS FOR FORMING SUCH COATING.

Applicant : PYRENE CHEMICAL SERVICES LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF GREAT BRITAIN, AND HAVING ITS OFFICE AT RIDGEWAY IVER, BUCKINGHAMSHIRE SLO 9JJ, GREAT BRITAIN.

Inventor : KEVIN BROWN.

Application No. 286/Bom/1984 filed on October 17, 1984 convention priority date 2nd Nov. 83 appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

13 Claims

A composition useful in the formation of a protective coating on a metal surface and which is substantially free of chlorate and chloride and which contains 0.8 to 2.5 parts zinc, 10 to 25 parts phosphate, 1.5 to 10 parts nitrate, 0.1 to 1.2 parts nickel, 0.5 to 1.5 parts silicofluoride and/or borofluoride and 0.25 to 2 parts introbenzene sulphonate (measured as sodium salt) and 0 to 0.7 parts manganese, all parts being parts by weight wherein the ratio Zn : PO₄ is 1 : 4 to 1 : 30.

Compl. specn. 8 pages.

Drg. Nil

CLASS : 94 I

159936

Int. Cl. : B 02 C—13/09, C 13 C 1/04.

AN IMPROVED CANE MINCER.

Applicants : WALCHANDNAGAR INDUSTRIES LTD., CONSTRUCTION HOUSE, WALCHAND HIRACHAND MARG, BAILLARD ESTATE, BOMBAY-400 038, MAHARASHTRA, INDIA.

Inventors : (1) KISHOR MAHADEO POLE, (2) THAMBHARAHALLI NAGARAJA AND (3) BHAGWAN SHANKAR DHAVALIKAR.

Application No. 291/Bom/1984 filed on October 20, 1984.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972), Patent Office, Bombay Branch.

29 Claims

An improved cane mincer of the type herein described for producing fiberised cane mass comprising :

a casing formed by a fixed top and two side plates, and an adjustably hinged curved front hood plate and an adjustable hinged back plate enclosing a plurality of operating sectors/regions and a rotor having bearing supported shaft with plurality of holders for holding knife/hammer sets facing adjustable floating anvil formed by a curved plate having indentations serrations such as hack-saw shaped hard faced or the like teeth on its inside curved surface, and mounted on a floating pivot below said back plate on one side of said rotor and supported on nut-bolt means through shear pins or the like instantly retractable hydraulic/electronic/pneumatic means to retract and swing back said anvil on said floating pivot under excessive load due to tramp iron or the like hard substance reaching said anvil zone and prevent damage to knife/hammer sets on rotor or jamming of motor causing motor 'burn outs';

in the direction of flow of cane material into said causing said front hood plate is provided with means formed by a curved plate forming convex lip on top of entry mouth to prevent bridging/choking of cane material at said entry mouth, the inside curved surface of said entry mouth is provided with or without plurality rows of detachable indentations projecting inwardly and facing said rotor and followed by vortex-like profile forming a throat which is further by rows of transversely extending adjustable stationary knives projecting inwardly from said hood plate and forming a comb like baffle or a transversely extending baffle plate for rebounding cane material into the operating sectors/regions before being thrown into said steep hopper therebehind;

an adjustable deflector plate with or without bent extension provided on one side of said rotor and located between swing diameter of said rotor and an apron carrier provided below said entry mouth for feeding cane material to be minced towards said rotor and into said entry mouth and said plurality of operating sectors/regions wherein said deflector plate prevents mixing of said cane on said apron carrier with fiberized cane mass deflected by said deflector plate for being discharged into a discharge chute for being taken up by a rake carrier to cane mill;

a plurality of adjustment means for adjusting various gaps in respective operating sectors/regions for controlling quality of fiberized cane mass, and means for rotating said rotor whereby under rotation of said rotor cane material fed into the said casing of cane mincer is reduced and fiberized and wherein the clearance angle 'CA-36' and the approach angle 'AA-35' for said hammers and knives attached to the said holder on hubs with respect to swing diameter and the geometry of said entry mouth and the knife/hammer sets on said rotor as well as the rake angle 'RA' and the clearance angle CLA of the hack-saw shaped hard faced teeth forming serrated lining on inside curved surface of said floating anvil and/or any angle variation thereof with respect to rotor center 'RC' are important parameters contributing to good cane preparation having high P.J., high R.D., high fiber length, high cell opening and low fines for extracting increased cane juice/sucrose yield therefrom per tonne of fiberized cane mass.

Compl. specn. 23 pages.

Drg. 10 sheets

CLASS : 201 C+D.

159937.

Int. Cl. : C 02 b 1/08.

PACKAGE WATER TREATMENT PLANT.

Applicant & Inventor : ANAND GOVIND BHOLE, QR. NO. 7, VISVESVARAYA REGIONAL COLLEGE OF ENGINEERING, NAGPUR-440 011, MAHARASHTRA, INDIA.

Application No. 294/BOM/1984. Filed Oct. 22, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

9 Claims

A portable package plant for treating water comprising a centrally located hopper shaped flocculating chamber, the hopper shape resulting in decrease of water velocity along its direction of flow, having a water inlet and a plurality of perforations at its lower end and containing a graded-pegble-bed; a number of settling chambers having an upper part and a lower part and adjoining the flocculating chamber such that the lower part of the settling chamber communicates with the upper end of flocculating chamber, the settling chambers having a sludge draining valve at the lower end and each settling unit having a water outlet towards its upper part and containing a settler system supported from the sides for trapping flocculated matter in water, the settler plates having such a shape that the velocity of water decreases along the direction of flow; equal number of declined rate filters at settling chambers each filter chamber having a water inlet and water outlet that containing a sand bed trapezoidal in cross-section and supported by a gravel bed, and a pipe network provided in the gravel bed, the pipe network comprising a main pipe one end of which is closed and the other end communicates with the water outlet of the filter chamber and a plurality of pipes provided on either side of the main pipe each said pipe having a plurality of pores along its length and being closed at the free end, each filter chamber adjoining the respective settling chamber such that the water outlet of the settling chamber communicates with the water inlet of the filter chamber.

Compl. specn. 15 pages.

Drgs. 5 sheets

CLASS : 170 B

159938

Int. Cl. : C 11 D 3/10, 3/395.

A METHOD OF PREPARING MANGANESE ADJUNCTS FOR USE AS BLEACH CATALYST.

Applicant : HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165-166, BACKBAY RECLAMATION, BOMBAY-400020, MAHARASHTRA, INDIA.

Inventors : 1. TIMOTHY DAVID FINCH, 2. RAYMOND JOHN WILDE.

Application No. 309/BOM/1984 filed November 6th, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

9 Claims

Method of preparing a manganese adjunct for use as a bleach catalyst comprising the steps of binding a manganese (II) cation to a ligand, forming a compound selected from the group consisting of true complex compounds, by method herein described, water insoluble salt compounds, by method herein described; and ion-binding compounds by adsorption: which compound is then protectively embedded by method herein described in a matrix of water-soluble or water-dispersible material selected from the group of organic homopolymers or heteropolymers, organic nonionic compounds, long chain C_{10} - C_{22} fatty acids, long chain C_{10} - C_{22}

fatty soaps, glassy sodium phosphates, and mixtures, thereof, said matrix being present in an amount of 5-50% by weight of the manganese adjunct.

Compl. specn. 24 pages.

Drgs. 4 sheets

CLASS : 15 B+C

159939

Int. Cl. : F 16 c-29/00, 33/30, 43/00.

AN ANTIFRICTION BALL BEARING ASSEMBLY FOR USE IN A DIE SET OR THE LIKE.

Applicants : LEMPCO INDUSTRIES INC., 5490, DUNHAM ROAD, CLEVELAND, OHIO, U.S.A.

Inventors : 1. JUNIOR O'NEIL & 2. LEONARD D. PLAGENS.

Application No. 320/BOM/1984 filed November 15, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

8 Claims

An antifriction ball bearing assembly for use in a die set which includes relatively reciprocable and telescoping shaft and bushing members and a tubular, cylindrical ball bearing retainer arranged to telescope between said members; characterised in that :

- (a) an annular, circumferential groove formed in said bearing retainer and opening toward one of said shaft or bushing members;
- (b) an axially directed guideway formed in said shaft or bushing member adjacent said bearing retainer; and
- (c) a key member slidable within the circumferential groove of said retainer and extending into the guideway of said shaft or bushing member and connecting said bearing retainer for relative axial reciprocation and rotation on said shaft or bushing member.

Compl. specn. 10 pages.

Drgs. 3 sheets

CLASS : 6B1 [XLVII (1)]

159940

Int. Cl. : A 62c-5/12.

DEVICE FOR PRODUCING A BLOCK OF SOLIDIFIED CARBON DIOXIDE.

Applicant : NICHIO KOEKI COMPANY LIMITED, ROOM 1002, PALAIS ROYAL AKASAKA NO. 1, 17-54, AKASAKA 2-CHOME, MINATO-KU, TOKYO 107, JAPAN.

Inventor : 1. YOSHIHISA KAWAGUCHI.

Application No. 321/BOM/1984 filed Nov. 16, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

12 Claims

A device for producing a block of solidified carbon dioxide essentially comprising, in combination : a high pressure vessel in which liquified carbon dioxide is contained a thermally insulated high pressure feed tube, and a molding box comprising a single molding chamber in which the required product of solidified carbon dioxide is molded in the form of block, one end of said high pressure vessel via valve means comprising a stop valve and pressure reducing valve while the other end thereof being connected to said molding box via a nozzle means, wherein said molding box is constructed in a cubic structure of square or rectangular configuration and essentially comprises a top cover having said nozzle means secured thereto, a pair of first side walls oppositely located

in a face-to-face relationship and a base board, each of said members being formed to define a square or rectangle and adapted to be connected to or disconnected from any one of the adjacent members, said first side walls being formed with a plurality of openings through which gaseous carbon dioxide flows out and further being provided with a layer of filter material having a predetermined mesh size which filter material is fixedly secured to the inner wall thereof, respectively.

Compl. specn. 15 pages.

Drgs. 4 sheets

CLASS : 61 K+I

159941

Int. Cl. : D 06 C 1/08.

IMPROVEMENT IN DRYING APPARATUS FOR DRYING LONG LENGTH OF FABRIC.

Applicant : HARISH TEXTILE ENGINEERS PVT. LTD., 19, PARS PANCHAYAT ROAD, ANDHERI EAST, BOMBAY-400069, MAHARASHTRA, INDIA.

Application No. 324/BOM/1984 filed November 17, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

5 Claims

Improvement in the drying apparatus for drying a long length of fabric which during the process of drying, is guided along its travel through a tunnel or chamber, said improvement comprising :

a length of wire, strip or the like disposed close to each selvedge of the fabric but slightly above the fabric, said wire being held in tension by passing the same over a reel or pulley, with one end held by any non-moving point without fouling with the fabric, the other end being connected to a spring, the tension of which is adjustable whereby the positioning of the wire in relation to the selvedge is possible.

Compl. specn. 9 pages.

Drg. 1 sheet

CLASS : 71 F & G, 131 A₃, 131 B₁ & B₃,

159942

Int. Cl. : F 21 b-7.00, 7.02.

FEED-CUM-CASING HANDLING DEVICE FOR A DRILLING RIG AND A DRILLING RIG COMPRISING THE SAME.

Applicants : INGERSOLL-RAND (INDIA) LIMITED, AN INDIAN COMPANY INCORPORATED UNDER THE COMPANIES ACT, 1956, AND HAVING REGISTERED OFFICE AT MAYBEK HOUSE, WORLI, BOMBAY-400025, MAHARASHTRA, INDIA.

Inventor : ASHWIN RATILAL NAGARWADIA.

Application No. 333/BOM/1984 filed on 1st December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

4 Claims

A feed-cum-casing handling device for a drilling rig comprising a hydraulic cylinder (1) with piston rod (4) provided with a pulley block (15) at the free end; a derrick or column (19) having one pulley (13) at top and one at bottom (14) and a movable power head (3) connected with a rope (18) passing over the said pulleys (13) (14) of the derrick (19) and the pulley block (15) at the piston rod end and fixed to a bracket (16) fixed to the derrick for anchoring the cylinder body (1) and piston rod (4) alternately with the help of removable pins (2) (5); a base (8) mounted with a pulley (10) fixed at the top of the said derrick, a crown (20) support for a set of pulleys (9), (11) (12) provided at the top end of the said cylinder body and a rope (7), one end of which is fixed to the said base (8), passing over the pulley (10) mounted over the said base and the said set of pulleys (9), (11), (12) and provided with a casing handling hook

5—107 GI/87

(6) at other free end; arrangement being such that when the cylinder body (1) is anchored to the said bracket (16) with the help of said removable pin (2) and the other removable pin (5) anchoring the piston rod (4) is removed the hydraulic cylinder (11) powers the feed system (3) and when piston rod (4) is anchored to the said bracket (16) by the removable pin (5) and the pin (2) anchoring the cylinder is removed, the same hydraulic cylinder (1) powers the casing handling device.

Compl. specn. 7 pages.

Drgs. 2 sheets

CLASS : 25 A

159943

Int. Cl. : E 04 C 1/30.

A SLAB WITH PRECAST BUILDING COMPONENTS.

Applicant : PADMANNA JAMBU CHAUGULE, BLOCK BLOCK NO. 11, P.O. RATNAPPA KUMBHAR NAGAR-416 121.

Inventor : ICHAI KARANJ, DIST. KOLHAPUR.

Application No. 334/BOM/1984 filed Dec. 3, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

15 Claims

A slab with precast building components, the slab comprising precast main rib units provided with reinforcement bars and laid mutually spaced apart at predetermined intervals according as their layout, precast sub rib units having reinforcement bars and laid in their corresponding bearing locations provided at predetermined intervals on the adjoining main rib units interconnecting them and forming joints there at and panel units laid in rows to cover the open spaces defined by the said main rib units and sub rib units the joints formed by and between the main and sub rib units and the panel units being filled in with cementing materials.

ses :

Compl. specn. 11 pages.

Drg. 1 sheet

Provisional Specification 5 pages.

Drg. Nil

CLASS : 89

159944

Int. Cl. : G 01 n 3/42.

IMPROVED INDENTATION HARDNESS TESTER.

Applicant & Inventor : GIRDHARI BALARAM RADHAKRISHNANI, 24 B, SAGAR SANGHET 58, COLABA ROAD, BOMBAY-400005.

Application No. 335/BOM/1984 filed December 3, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

4 Claims

An indentation hardness tester with the provision of changing the effective length of the load spring by the fluted or threaded arrangement provided on the main spindle comprises :

a rack integrated with the indenter spindle and meshed with a train of gears for a wider movement of the pointer of substantially 300° for full depression of the said spring loaded spindle;

a hair spring mounted on a shaft of the said train of gears using the gears in one direction only maintaining constant and continuous contact in between the teeth of the meshed pinions thereby avoiding clearance and eliminating the backlash;

a replaceable indenter spindle with or without a fluted or threaded provision for mounting and winding on to it the open end of the spring to the necessary extent to obtain the desired effective length of the spring for correct load-deflection relationship for measuring hard-

ness of different specimens soft or hard, rubber or plastics, foam or sand mould and cotton or synthetic yarn;

a replaceable indenter of any shape such as flat faced truncated cone, pointed radiused cone or spherical ball surface threaded into the lower end of the main indenter, mounted with a load spring which is properly designed and sized for a particular application such as measurement of hardness of different specimens which may be hard or soft; and

a maximum reading auxiliary pointer to be dragged by the main pointer upto its maximum displacement but retained there during the return of the main pointer, the said auxiliary pointer being manually operated for its return back to original position by a knob projecting outside through the transparent front cover of the dial.

Compl. specn. 12 pages.

Drgs. 5 sheets

CLASS : 17A_R

159945

Int. Cl. : A 23 1 1/02.

IMPROVED PROCESS OF MAKING CITRUS FRUIT JUICE CONTAINING PULP.

Applicant : BALKRISHNA KANHAIYALAL NEVATIA, AN INDIAN NATIONAL OF UDYOG BHAWAN, 250-D, WORLI, BOMBAY-400 025, MAHARASHTRA, INDIA.

Application No. 363/Bom/1984, filed on 31st December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

7 Claims

An improved process of making citrus fruit juice like orange, containing pulp comprising the steps of removing the outer skin of the fruit to get individual pieces whose inner skin being removed by treatment with a 0.5% to 4% solution of hydrochloric acid whereby the latter is dissolved, removing the remaining acid by washing with water, neutralising the acid by dilute caustic soda solution and water, separating the pulp from the seeds by means of a mechanical vibrator provided with a screen, adding such ingredients as citric acid, sugar, glucose, fructose, standard flavouring agents and permissible colours in the range of from 0.5% to 2.5% heating the mixture at a temperature of from 80°C to 100°C filling the said juice into containers while hot, sealing the containers and keeping them in cold temperature in the range of from 0°C to 10°C till the containers attain the said cold temperature and finally withdrawing them to be kept at ordinary temperature.

Compl. specn. 6 pages.

Drg. Nil

CLASS : 105-C

159946

Int. Cl. : G 06 k 1/00, 3/00.

EXCEPTION QUANTIZATION AND COMMUNICATION OF PROCESS SIGNALS FOR DISPLAYS AND CONTROL PURPOSES.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : 1. SURESH CHANDRA AGARWAL, 2. DAN EDWARD FORNEY, 3. EDWARD DENNIS JANCEK, 4. MARION ALVAH KEYFS, 5. JAMES DAVID SCHOEFFLER, 6. MICHAEL SCOTT WILFAY.

Application No. 329/Cal/83 filed March 18, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A system for processing signals and for selectively transmitting same to a computer system and/or a display device comprising means for determining the difference in value between the signals and previously transmitted signals, means for comparing said difference in value with a predetermined level of difference in value, and means responsive to said comparing means causing the transmission of said signals to a computer system and/or a display device when said difference in value between said signals and said previously transmitted signals exceeds said predetermined difference level.

Compl. specn. 12 pages.

Drg. 1 sheet

CLASS : 107-B & G.

159947

Int. Cl. : F 02 b 29/00.

EXHAUST GAS TURBOCHARGER ON A SUPERCHARGED DIESEL ENGINE.

Applicant : BBC BROWN, BOVERI & COMPANY, LIMITED, OF CH-5401 BADEN, SWITZERLAND.

Inventor : ADRIAN STREULI.

Application No. 343/Cal/83 filed March 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Exhaust gas turbocharger on a supercharged diesel engine, this turbocharger possessing a separate regenerative turbine which delivers power, characterised in that the supercharger turbine (3', 3''), which is connected to the exhaust gas receiver (5) of the diesel engine (1), is endowed with a turbine area which is optimised for partial load and in that means (8', 9, 8'') are provided for rendering theregenerative turbine (6' 6'') inoperative.

Compl. specn. 12 pages.

Drg. 3 sheets

CLASS : 127-E & F

159948

Int. Cl. : F 16 h 1/16.

CIRCULATING BALL WORM DRIVE

Applicant : NEFF GEWINDESPINDELN GmbH, OF ALFRED-RITTER-STRASSE 47, D-7035 WALDENBUCH, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. KARL NEFF.

Application No. 353/Cal/84 filed May 23, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

27 Claims

Circulating ball worm drive having :

a worm nut (10) formed with a helical track (6) therein, a worm spindle (1) formed with a helical groove (2) at its circumference, and balls (3) retained between said track and groove and forming a worm drive connecting the nut and the spindle;

a recirculating connection (7) between adjacent turns of the helical track in the nut, formed in the nut and connecting a terminal portion of one turn of the track with an adjacent terminal portion of said one turn to permit endless recirculation of the balls in the track defining that turn;

wherein the nut comprises;

a sleeve-like nut body (10) and a helical, at least in part essentially half-round insert strip (4, 4') shaped to receive the balls (3) forming and defining said track, said insert strip being additionally shaped and formed to define, at least in part, said recirculating connection extending between adjacent terminal portions of the insert strip.

Compl. specn. 20 pages.

Drg. 6 sheets

CLASS : 151-E

159949

21 Claims

Int. Cl. : B21 d 39/08.

APPARATUS FOR LOCAL EXPANSION SHAPING OF TUBES.

Applicant : COMPAGNIE EUROPEENE DU ZIRCONIUM CEZUS, 10 RUE DU GENERAL FOY 75008 PARIS, FRANCE.

Inventors : 1. SERGE GALIE, 2. JEROME HAUTDIER, 3. CHRISTIAN SOULET.

Application No. 595/Cal/83 filed May 11, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Apparatus for local expansion shaping of tubes, said apparatus comprising :

a dismantable tube die (5) open at both ends and including a central expansion chamber (14), the inside dimensions of which correspond to those of the expanded region to be produced and, to opposed sides of the expansion chamber, two cylindrical bearing surfaces (12, 13) the inside diameters of which are substantially equal to the initial outside diameter of the tube (1) to be expanded for an accommodation of the tube (1) within the die (5), and mandrel (17) for reception within the die-received portion of the tube (1), said mandrel (17) including an internal conduit (18) having one end adapted for communication with, and introduction of pressurized fluid to, an annular space (20) between the mandrel (17) and the tube (1), said mandrel having compressible seals (23, 24) mounted thereabout at spaced points therealong for sealing engagement with the tube to delimit said annular space (20) between the mandrel (17) and the tube (1) to extend beyond the opposed sides of the expansion chamber (14) into the areas of the cylindrical bearing surfaces (12, 13) of the die (5);

said mandrel (17) including annular grooves (21, 22) thereabout, said grooves (21, 22) being positionable to the opposite sides of the annular space (20) and housing said seals (23, 24), the grooves (21, 22) being of a transverse width greater than the seals (23, 24) received therein, each groove (21, 22) transversely extending between an inner side toward the annular space (20) and an outer side outwardly spaced relative to the annular space (20), each of said annular grooves (21, 22) being variable in depth from a maximum depth at the inner side to a minimum depth at the outer side, each seal (23) being of a height greater than the maximum depth of the corresponding groove (21) and capable of increasing compression between the mandrel (17) and tube (1) upon outward movement of the seal (23) in response to pressure increase in the annular space (20).

Compl. specn. 20 pages.

Drg. 2 sheets

CLASS : 194-C₁₁

159950

Int. Cl. : H01 l 3/00.

VERTICAL IGFET DEVICE AND METHOD FOR FABRICATING SAME.

Applicant : RCA CORPORATION, OF 30 ROCKEFELLER PLAZA, NEW YORK, NEW YORK 10020, UNITED STATES OF AMERICA.

Inventors : 1. LUBOMIR LEON JASTRZEBSKI, 2. ALFRED CHARLES IPRI, 3. ACHILLES GEORGE KOKKAS.

Application No. 813/Cal/83 filed June 30, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A method for fabricating a vertical IGFET device, comprising the steps of :

providing a substrate having a mono-crystalline semiconductor portion of a first conductivity type at a surface thereof;

forming a first insulating layer on said surface;

forming a gate electrode of predetermined thickness on the first insulating layer, the electrode having an aperture therethrough, said aperture overlying a portion of said monocrystalline semiconductor portion;

coating the apertured electrode with a second insulating layer so as to form an insulated gate;

etching the first insulating layer, using the insulated gate as an etch mask, so as to expose an area of monocrystalline semiconductor material within the aperture of the insulated gate;

epitaxially growing semiconductor material from said area of monocrystalline semiconductor material so as to substantially fill the aperture; and

doping said epitaxial semiconductor material so as to form a region of second conductivity type disposed substantially opposite said gate electrode, and a region of first conductivity type overlying said second-conductivity-type region.

Compl. specn. 33 pages.

Drg. 4 sheets

CLASS : 105-C

159951

Int. Cl. : G03 g 15/00.

A DOCUMENT DESKEWING APPARATUS.

Applicant : XEROX CORPORATION OF XEROX SQUARE, ROCHESTER, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. RUSSELL LEE PHELPS, 2. DENIS JOSEPH STEMMLE, 3. TIMOTHY MELVIN MINERD.

Application No. 947/Cal/83 filed July 29, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

In a document sheet feeding and registration apparatus for deskewing a document sheet relative to a desired copying position on a copier platen while feeding the document sheet onto the platen into said copying position, the improvement comprising :

means for obtaining an electrical signal corresponding to the actual velocity of the document sheet being fed onto the platen;

automatic document sheet deskewing means for deskewing the document sheet on the platen as it is being fed into said copying position; and

means for actuating said automatic document sheet deskewing means at a precise actuating time occurring slightly before the document sheet reaches the copying position;

said actuating time of said document sheet deskewing means being controlled by said electrical signal corresponding to the actual velocity of the document sheet.

Compl. specn. 20 pages.

Drg. 3 sheets

CLASS : 127-I

159952

Int. Cl. : G 05 b 11/00.

NUMERICALLY CONTROLLED MACHINE CENTRE HAVING TOOL STORAGE MEANS, AUTOMATIC TOOL CHANGER AND TOOLS.

Applicant : DeVLIEG MACHINE COMPANY, OF FAIR STREET, ROYAL OAK, MICHIGAN 48068, UNITED STATES OF AMERICA.

Inventor : I. ROBERT MARCEL ORTIEB.

Application No. 1089/Cal/83 filed September 6, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A numerically controlled machine center having tool storage means, an automatic tool changer and tools in said storage means having externally accessible adjusting means for adjusting a tool bit thereon, the improvement comprising :

engaging means disposed in the area of said storage means and adapted to drivingly engage said adjusting means on a tool;

actuating means for causing said engaging means to engage and disengage the adjustment means of a tool when the latter is in a predetermined position in said storage means; and

indexing means for indexing said engaging means while engaged with said adjusting means to fine-adjust a tool bit thereon.

Compl. Specn. 16 pages. Drg. 2 sheets.

CLASS : 85-G; 97 B & F.

159953

Int. Cl. : H 01 r 3/08; H 05 b 7/06.

CONTINUOUS METHOD OF GRAPHITISING LONG PRE-COOKED CARBONACEOUS PRODUCTS AND A FURNACE FOR CARRYING OUT THE METHOD.

Applicant : SOCIETE DES ELECTRODES ET REFRAC-TAIRES "SAVOIE" (SERS), OF 12, RUE DU GENERAL FOY, 75008, PARIS-FRANCE.

Inventors : 1. JEAN-CLAUDE BERNARD, 2. PATRICK CHABRIER, 3. BERNARD TAHON, 4. JEAN-MARC TESORIERE, 5. DOMINGO ORTEGA.

Application No. 1226/Cal/83 filed October 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A continuous method of graphitising long pre-cooked carbonaceous products, by passing said products through the inside of a furnace in a column, the column of carbon-containing products being heated by the direct joule effect to a temperature of at least 2500°C, wherein the column of carbon-containing products (14—17) is arranged horizontally or near horizontally, the packing of the furnace (12) is a fragmented carbon-containing material (30) which is not displaced within the furnace, the column of carbon-containing products is subjected to a compressive stress of approximately 0.1 to 1 MPa while it is passing through, and the electrical connection between the column of products and at least one current source at the upstream side is distributed between at least two points, a fraction of 10 to 50% of the strength of the graphitising current being introduced at the top of the column (20—24) and the complementary fraction further down-stream (13—25).

Compl. Specn. 30 pages.

Drgs. 4 sheets.

CLASS : 190-D.

159954

Int. Cl. : F 03 d 11/00.

A SYSTEM FOR MINIMIZING THE EFFECT OF YAW OSCILLATIONS IN A WIND TURBINE.

Applicant : UNITED TECHNOLOGIES CORPORATION, OF 1 FINANCIAL PLAZA HARTFORD, CONNECTICUT 06101, UNITED STATES OF AMERICA.

Inventor : I. GLIDDEN SWEET DOMAN.

Application No. 1364/Cal/83 filed on November 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

In a wind turbine comprising a plurality of airfoil blades (15, 20) mounted on a rotatable hub (25), said wind turbine being mounted on a flexible cantilever tower (50) and having a centre of mass longitudinally offset therefrom and being pivotable about a yaw axis through said tower, a system for minimizing the effect of yaw oscillations, characterized by :

drive means (70) adapted for being mounted on said tower (50) and connected to said wind turbine (40) for driving said wind turbine in yaw and being adapted for being driven at selected yaw settings of said wind turbine by yaw oscillations of said wind turbine from lateral bending of said tower for the damping of such yaw oscillations by the dissipation of energy associated therewith and having means (130, 135, 140, 145) associated with said driven by said wind turbine yaw oscillations for enhancing the damping thereof.

Compl. Specn. 14 pages.

Drg. 1 sheet.

CLASS : 32-F₃ c.

159955

Int. Cl. : C 07 c 47/56.

PROCESS FOR THE PREPARATION OF 3-ETHOXY-4-HYDROXY BENZALDEHYDE.

Applicant : RECKITT & COLMAN OF INDIA LIMITED OF 41, CHOWRINGHEE ROAD, CALCUTTA-700 071, STATE OF WEST BENGAL, INDIA.

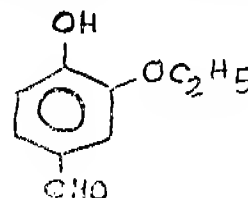
Inventors : 1. DR. SURENDRA PRASAD BHAT-NAGAR, 2. DR. AJAI PRAKASH, 3. DR. SUSHEEL KUMAR SURI, 4. DR. SATISH CHANDRA MISRA, 5. AJAI KUMAR BAIPAL.

Application No. 1423/Cal 83 filed November 18, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Process for the preparation of 3-ethoxy-4-hydroxybenzaldehyde of general formula I of the accompanying drawings



which comprises reacting 3-ethoxy-4-hydroxyphenyltri-chloromethyl-cannabinol in dimethylformamide with alkali metal hydroxide such as herein described at a temperature of 5 to 40°C preferably 15 to 25°C.

Compl. Specn. 8 pages.

Drg. 1 sheet.

CLASS : 37 B.

159956

Int. Cl. : B04b, 5/00, 5/08 & B01d, 45, 14, 53/24.

'IMPROVED APPARATUS FOR CENTRIFUGAL SEPARATION OF MIXTURE CONTAINING AT LEAST ONE GASEOUS PHASE'.

Applicant : PIERRE SAGET, of 36 avenue de la Grande Armée, 75017 Paris, France, a French citizen.

Inventor : PIERRE SAGET.

Application for Patent No. 97/Del/1983 filed on 16th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

7 Claims

Improved apparatus for the centrifugal separation of a mixture containing at least one gaseous phase, comprising inside a stationary enclosure, a rotary assembly constituted by a treatment rotor with apertured discs, the apertures of each disc being angularly offset with respect to apertures of an adjacent disc, an upstream rotary distributor and a downstream fan on either side of said discs, the mixture to be treated flowing in laminar manner through the apertures of the discs in helical running streams separated by helical still layers, in which the non-gaseous phase to be separated moves on between the discs as far as a fixed part of the enclosure where it is picked up and moved upstream, wherein there are means to annihilate at least partly the downstream leaks through annular openings provided between the discs and the fixed part of the enclosure which allow rotation of the rotary assembly, said means to annihilate downstream leaks being constituted by small axial vanes on the periphery of any one at least of the elements constituted by the discs and by the fixed part of the enclosure to generate an axial screen of fluid flowing backwards in the upstream direction through said annular openings, said axial screen opposing any leaks and thereby ensuring that the mixture is entirely treated and that the separated heavy phase moves upstream along a wall of the enclosure.

(Complete specn. 14 pages. Drg. 3 sheets.)

CLASS : 93.

159957

Int. Cl. : C 22 b—1/14.

"APPARATUS FOR THE LIQUID GRANULATION OF SLAG."

Applicant(s) : PAUL WURTH S.A., of 32 rue d'Alsace, Luxembourg, Grand-Duchy of Luxembourg, a company organised under the laws of Luxembourg.

Inventor(s) : GUIDO MONTEYNE, MARC CALMES and ROBERT SCHMILLER.

Application for Patent No. 119/DEL/1983 filed on 24th February 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

6 Claims

Apparatus for the liquid granulation of slag which comprises channel means for the delivery of falling curtain of slag in an approximately vertical direction, means for the generation of a plurality of currents of water under pressure in the form of a multiplicity of little jets projected against said falling curtain of slag, said generating means comprising the wall of chamber fed with water under pressure, said wall being provided with a plurality of slits and perforations through which said jets of water emerge, collection-cum-discharge means located at or near the base of said wall for collecting the slurry of water and granulated slag resulting from the projection of said jets against said curtain of molten slag, filtration means connected to said discharge means for filtering said slurry to separate the water and the granulated slag, said filtration means comprising a drum rotating about

a horizontal axis and provided internally with filtration buckets adapted during the rotation of the drum to be immersed into the slurry within said drum and to raise filtered granulated slag for delivery to a conveyor belt for removal thereof, characterised in that known detection means are connected to said drum for measuring the force necessary for rotation of said drum, said detection means producing signals representing the output of said molten slag and means for regulating the rate of flow of water under pressure in accordance with said signals, said regulating means connected to said generating means.

(Complete Specn. 21 pages. Drgs. 5 sheets).

CLASS : 69 O.

159958

Int. Cl. : H 01h 9/00.

"ELECTRICAL CONNECTION DEVICE WITH READY ACCESS PROTECTED TERMINALS OF SET SCREW TYPE".

Applicant : LA TELEMECANIQUE ELECTRIQUE, of 33 bis, Avenue du Marechal-Joffre, 92000 Nanterre, France, a French company.

Inventors : CLAUDE JULLIEN & GERARD LERUDE.

Application for patent No. 142/Del/83 filed on 8th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

An electrical connection device with ready access protected terminals of set screw type, including a holder with a number of adjacent housings separated by partitions and limited by walls, a number of connection terminals each having an internal fixed conductor provided with a threaded opening, the screwing axis of which is parallel to said walls, a set screw which can be screwed in said threaded opening and a clamp traversed by the set screw and maintained under the head of said set screw, said electrical connection device further comprising a protective cover having a base member which is removably fixed to a frontal side of the holder and tubular protrusions each coaxial to the corresponding screwing axis, each of these tubular protrusions forming holes in which a screwing tool is able to be guided, characterized in that each of said protrusions has a cylindrical internal section the diameter of which is slightly greater than the diameter of the head of said set screw and at least a thin portion which can be transversely distorted, said partitions and/or said walls comprising at least a rib adapted to cause said distortion when the cover is coupled to the holder so that the set screw head can be inserted in the hole when the cover is not coupled to the holder, and is gripped by the distorted portion when the cover is coupled to the holder.

(Complete Specn. 10 pages. Drg. 2 sheets).

CLASS : 69 D [LIX(1)].

159959

Int. Cl. : H 01 h—9/00.

"A CONTACTOR WITH A REMOVABLE SUBSET OF AUXILIARY SWITCHES".

Applicant(s) : LA TELEMECANIQUE ELECTRIQUE, OF 33, BIX, AVENUE DU MARECHAL JOFFRE, 92000 NANTERRE, FRANCE, A FRENCH COMPANY.

Inventor(s) : GERARD LERUDE AND JACQUES LESOILE.

Application for Patent No. 143/DEL/1983, filed on 8th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A contractor with a removable subset of auxiliary switches, wherein the contractor has a housing body having a base and, lodged in said body, two parallel rows of main terminals; insulating partitions between the respective main terminals and movable electromagnet armature, said body having fastening surface comprising fastening holes and said subset having fastening means cooperating with said fastening surface; said subset comprising a slide, movable contact bridges mounted on said slide, fixed contacts cooperating with said movable contact bridges, auxiliary terminals connected to said fixed contacts and actuating means cooperating with the movable electromagnetic armature and actuating the movable contact bridges, wherein said subset has a casing located adjacent a lateral side of the body of the contractor which is parallel to the said rows of main terminals and located between the said base and the said insulating partitions, said casing having, at a first end thereof, first pivotal anchoring means cooperating with first holding means provided on the said body, between the said fastening holes and at a second opposite end thereof, elastically deformable second anchoring means cooperating with second holding means provided on the said body in close proximity to one of the two rows of terminals.

Complete Specification 14 pages.

Drawing 3 sheets

CLASS : 176B, F.

159960

Int. Cl. : F 22 b 21/36, 31/00, F 27 d 17/00.

"A SINGLE DRUM ALL-WELDED BOILER SYSTEM".

Applicant : THE BABCOCK & WILCOX COMPANY, A CORPORATION UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA OF P.O. BOX 60035, 1010 COMMON STREET, NEW ORLEANS, LOUISIANA 70160, U.S.A.

Inventor : THOMAS PAHL SEIFERT, WARREN EDWARD LONGFIELD.

Application for Patent No. 261/DEL/83, filed on 20th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

13 Claims

A single drum all-welded boiler system (10) for a furnace (20) having a combustion chamber (22) and a convection pass (26) downstream of the combustion chamber and connected to the combustion chamber in a transition area (28), the system (10) being characterised by :

a superheater (60) disposed in the transition area (28) and having an inlet and an outlet;

a economiser (70) disposed in the convection pass (26) and having an inlet and outlet; and

a single steam drum (90) having at least one inlet connected to the economiser outlet and at least one outlet connected to the superheater inlet, the drum being located in an area not exposed to combustion gas flow.

Complete Specification 17 pages.

Drawing 3 sheets.

CLASS : 32 F₂ (b) & 55 E₄.

159961

Int. Cl. : C07c—109/00.

"PROCESS FOR THE SYNTHESIS OF 1, 4, DISUBSTITUTED PIPERAZINES".

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

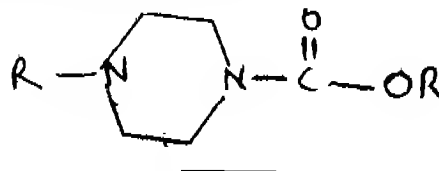
Inventors : RASHMI RASTOGI, SATYAVAN SHARMA, NITYA ANAND, TOMAL KRISHNA ROY CHOWDHURY, KUMKUM TYAGI, PUVVADA KALPANA MURTHY, RANJIT KUMAR CHATTERJEE AND AMIYA BHUSAN SEN.

Application for Patent No. 320/Del/1983 filed on 16th May, 1983. Complete specification left on 16th July, 1984.

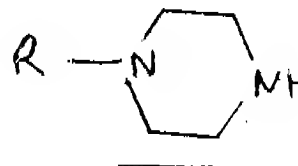
Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims

A process for the synthesis of 1, 4-disubstituted piperazines of the general formula (III)



with high filaricidal activity wherein R is alkyl like methyl or ethyl and R' is alkyl like *l*-butyl, *n*-butyl, *t*-butyl and aralkyl like benzyl which comprises reaching *l*-substituted piperazines of the general formula (I)



wherein R is alkyl like methyl or ethyl with halo-formates of the general formula (II)



wherein X is halogens like chloro or bromo and R' is alkyl like *i*-butyl, *n*-butyl, *t*-butyl and pentyl in presence of bases like potassium carbonate, sodium bicarbonate or triethylamine in solvents like benzene, acetone, chloroform, ethanol.

Provisional specification 5 Pages.

Complete specification 7 pages.

Drawing 1 sheet.

CLASS : 32B.

159962

Int. Class :—C07d 1/14.

"PROCESS FOR PREPARING A SUPPORTED SILVER CATALYST SUITABLE FOR THE VAPOR-PHASE OXIDATION OF ETHYLENE TO ETHYLENE OXIDE".

Applicant : THE HALCON SD GROUP INC., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, HAVING ITS OFFICE AND PRINCIPAL PLACE OF BUSINESS AT 2 PARK AVENUE, NEW YORK, NEW YORK, 10016, U.S.A.

Inventor : JAY ARTHUR RASHKIN.

Application for Patent No. 364/Del/1983 filed on 31st May, 1983.

Appropriate office for opposition proceeding (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

(19 Claims)

A process for preparing a supported silver catalyst suitable for the vapor-phase oxidation of ethylene to ethylene oxide which comprises :—

(a) impregnating a support of the kind such as herein described with a solution of a silver compound and atleast one alkali metal selected from the group

consisting of sodium, cesium, rubidium and potassium said alkali metal being present in an amount sufficient to depress the activity and selectivity of said silver catalyst after activation thereof;

(b) activating said catalyst by heating said impregnated support in air to produce a catalyst having depressed activity selectivity; and

(c) heat treating said activated alkali metal containing catalyst at a temperature of atleast 400°C for a period of time sufficient to reactivate said depressed catalyst.

(Complete specification 28 pages).

CLASS : 152E.

159963

Int. Cl. C08f-29/42, 29/04, 29/46.

"A MOULDABLE COMPOSITION".

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF, ENGLAND A BRITISH COMPANY.

Inventor : HUGE RAISTRICK JAMES.

Application for patent No. 371/DEL/1983 filed on 3rd June, 1983.

Convention dated on 9-6-1982/U.K. (8216748) and 22-4-83/U.K. (8310996).

Appropriate office for opposition proceeding (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

21 Claims

A mouldable composition comprising a homogeneous mixture of (a) at least one particulate material such as herein described insoluble in water and which is substantially unreactive with water, (b) at least one water-soluble or water dispersible organic polymeric material such as herein described and (c) water, characterised in that the composition also comprises an additive capable of reacting with the polymeric material to insolubilise the material with respect to water, and in that components (a), (b), and (c) are present in the composition in proportions by volume of the composition, of respectively 40 to 90% 2 to 25%, and not more than 60%.

Compl. Specn. 54 pages.

Drg. 2 sheets.

CLASS : 139A.

159964

Int. Cl. : C01 b 31/08.

"PROCESS FOR THE MANUFACTURE OF PYROCHAR (ACTIVATED CARBON) FROM WASTE MATERIALS".

Applicants : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : ANAND DATTATRAY BHIDE, VINAYAK PARASHURAM THERGAONKAR, DATTATRAY PATIL, SITARAMJI RAMTEKE.

Application for Patent No. 438/DEL/1983 filed on 30th June 1983. Complete Specification left on 30th September, 1984.

Appropriate office for opposition proceeding (Rule 4 Patent Rules, 1972) Patent Office Branch, New Delhi-5.

7 Claims

A process for the preparation of activated carbon (Pyrochar) from waste materials which comprises separation of organic and inorganic components from these waste materials, reducing the size of the organic portion of the material, treating the material with zinc chloride solution, drying and heating the dried product at 700°C which is attained at 4-6 hours.

Provisional Specn. 9 pages.

Compl. Specn. 10 pages.

CLASS : 51 C, 153.

159965

Int. Cl. B 24 b 3/00.

"A DEVICE FOR SHARPENING ROTATING BLADES".

Applicants : G. D. SOCIETA' PER AZIONI, AN ITALIAN COMPANY OF VIA POMPONIA, 10, 40100 BOLOGNA, ITALY.

Inventor : RICCARDO MATTEI.

Application for Patent No. 440/DEL/83 filed on 1st July, 1983.

Appropriate office for opposition proceeding (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-5.

4 Claims

A device for sharpening rotating blades, comprising at least one grindstone (31) keyed onto a shaft (24) rotatable about its axis inclined with respect to an axis (5) of rotation of a driven rotating blade (3) located laterally of each said grindstone (31) being able to come into contact with each said grindstone (31) thereby to cause the said shaft (24) to rotate by frictional engagement; a movable support (11) for the said shaft (24) said movable support having on its upper end, a cup shaped body having a pair of grooves in its wall, and actuator means (39) to displace the said movable support (11) for the purpose of varying the relative position of the said blade (3) and each said grindstone (31), characterised by the fact that it includes first control means (41) sensitive to the speed of rotation of the said shaft (24), connected to the said actuator means (39) to maintain the said speed above a predetermined value, and second control means disposed between said shaft and said blade axis with its detecting end facing the inner oblique surface of said wall said second control means being connected to said actuator and cooperating within said groove, for maintaining in use the distance between said shaft and said blade axis within a predetermined range of values.

Compl. Specn. 13 pages.

Drg. 3 sheets.

IND. : 117A.

159966

Int. Cl. E05b 65/60.

IMPROVED LOCK FOR LUGGAGE.

Applicant : VIP INDUSTRIES LTD., AN INDIAN COMPANY OF VIP HOUSE, 88C OLD PRABHADEVI ROAD, BOMBAY-400 025, MAHARASHTRA, INDIA.

Inventor : SHASHIKANT LAXMAN KULKARNI.

Application No. 402/BOM/83 filed on Dec. 26, 1983.

Complete after provisional left on Mar 21, 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rule, 1972) Patent Office, Bombay Branch.

11 Claims

1. A lock for luggage cases of the kind such as herein described which comprises at least a pair of inter-engageable

components, said components comprising a first or fixed component mounted on the lid or the body of said case and a second or rotatable component mounted about a pivot fixed in relation to said body or said lid as the case may be, said rotatable component being capable of rotation from a free position out of registry with said fixed component to a position of inter-engagement with said fixed component when it lies in overlapping relation with respect to said fixed component, at least part of said rotatable component defining interiorly a chamber having located therein resilient locking means, said locking means being retained within said chamber by a restraining or stop member, said locking means being adapted to be acted upon by external lever means to cause at least part of said locking means to override said stop member in either of two opposite directions when said fixed and rotatable components are in overlapping relationship thereby to enable said locking means to pass through a recess in a wall of said chamber adjacent the body or lid of said case and to engage with or disengage from an aligned recess provided at or in the body or lid of said case whereby said rotatable component is secured in position on said fixed component to lock said case or is released from said secured position to open said case.

Provisional specification—3 pages. Drawing 2 sheets.

Complete specification—12 pages. Drawing 1 sheet.

IND. CL. : 173A.

159967

Int. Cl. : B05b-1/12.

UNITARY NOZZLE FOR OBTAINING TWO TIER FOUNTAIN JETS.

Applicant & Inventor : SUNDEEP DULICHAND NAIK, AN INDIAN CITIZEN, 1997, SHUKRAWAR PETH, PUNE-411 002, MAHARASHTRA, INDIA.

Application No. 32/BOM/1984 FILED ON FEBRUARY 4, 1984.

Complete after provisional left on May 2, 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rule, 1972) Patent Office, Bombay Branch.

5 Claims

Unitary nozzle of the type herein described for obtaining two tier fountain jets comprising a coupling made from metal or plastics, said coupling having screw threads matching with plumbing outlet, a nut walled skirt for gripping by a spanner or the like, and a bore hole forming a seat for upper end of a fixed pipe portion and a fibre/nylon bush bearing fitted to upper end of said coupling leaving an air gap therebetween to prevent formation of air lock and ensure smooth flow of second fountain jet therethrough; said coupling being provided with means for dividing single water jet into two fountain jets, first of said jet dividing means comprising a tube portion rotatably/adjustably/reciprocatingly/wobblingly mounted between a lower bush bearing fitted to bottom end of said pipe portion and said upper bush bearing fitted to said coupling, and secured thereto by and between a tight fit PVC bush nozzle having a concave depression around a central bore hole and a nose at its bottom and face having a plurality of slots for forming a crystal dome of transparent water sheet and the ribs formed between adjacent slots forming vanes for initiating rotation of said tube portion around eccentric axis formed within said upper fibre/nylon bush bearing having larger diameter bore hole and at the bottom end of said tube portion a locking bush is adjustably fitted and secured thereto by a lock bolt, said locking bush being capable of adjusting reciprocating stroke of said tube portion and water under pressure is ejected therethrough forming a high rising dancing/wobbling/reciprocating/vibrating fountain jet which forms into droplets when dropped down from such height and when flood lit gives an optical illusion of millions of bursting stars being dropped down from said fountain nozzle; and the second of said jet dividing means comprising a passage formed between rectangular slots facing each other provided in said pipe portion and rotatably mounted tube portion and said second fountain jet ejected therethrough and impinging on said bush nozzle is deflected to form crystal dome of transparent water sheet formed around said fountain nozzle below said high rising fountain jet forming cone of bursting stars.

Provisional Specification 6 Pages, Drawings—2 sheets.

Complete Specification 9 Pages, Drawings—2 Sheets.

IND. CL. : 89.

159968

Int. Cl. : G01n, 3/40.

AN IMPROVED PORTABLE HAND GRIP TYPE METAL HARDNESS TESTER.

Applicant & Inventor. GIRDHARI BALRAM RADHA-KRISHNANI, AN INDIAN, C/O. BLUE STEEL ENGINEERS PRIVATE LIMITED, BLUESTEEL HOUSE, D-12, MDC, MAROL ANDHERI EAST, BOMBAY-400 093, MAHARASHTRA, INDIA.

Application No. 53/BOM/1984 FILED ON MARCH, 5, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rule, 1972) Patent Office, Bombay Branch.

7 Claims

An improved portable hand grip type metal hardness tester for measuring hardness of metals comprising a 'C' shaped frame with an anvil holding assembly at one end and with a load applying device at the other end so that the specimen to be tested is gripped in between anvil and the indenter of the load applying device, a metal arm one end of which is firmly attached to the 'C' frame near to its anvil end and the free end of the arm is in contact with the spindle of a dial gauge indicating the applied major loads, wherein the dial gauge has a dot marked on the rotatable dial for its pre-setting to locate the dot under the indenter hand when the specimen is gripped in between the anvil and the indenter, a 'SET' or index point to limit the application of minor load on the specimen and A, B and C points denoting major load corresponding to Rockwell A, B and C test; the dial gauge being also fixed to the frame near to the load applying device end and the said load applying device which consists of a calibrated compression load spring for varying the load as per requirement and consisting of a hand wheel screwed to a threaded spindle, the spindle is screwingly movable through a collet, the collet being attached to the 'C' shaped frame and opposite to the anvil the said threaded spindle houses the indenter holder containing the indenter head; a cylindrical barrel dial assembly to measure the depth of penetration which is directly calibrated circumferentially with hardness numbers in mounted on a sleeve by means of a spring loaded ball engaging in the grooves provided on the circumference of the said sleeve and the said sleeve is attached to the hand wheel.

Compl. Specn. 11 pages.

Drg. 3 sheets.

IND. CL. : 32F aa + 123.

159969

Int. Cl. : A01NN 5/00, 21/02, C07c-69/28.

TITLE. A PROCESS FOR PREPARING A PLANT GROWTH NUTRIANT COMPOSITION.

Applicants : HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : (1) SUNETRA NARAYAN KAR CHAUDHARI.

(2) KURUVAKKAT KOCHU GOVIND MENON &

(3) SRIDHARA BHASKARAN.

Application No. 84/BOM/1984 Filed March 30, 1984.

Complete after provisional left June 27, 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rule, 1972) Patent Office, Bombay Branch.

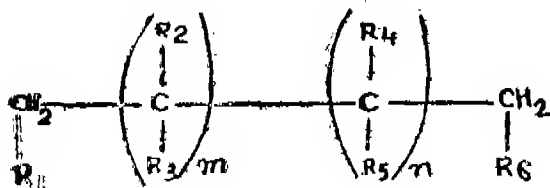
40 Claims

A process for preparing a plant growth nutrient composition in the form of a concentrate which comprises preparing an aliphatic ester of a diol having the general formula I of the accompanying drawings where in R₁ is hydrogen or OH, R₂ is hydrogen or OH or alkyl (C₁-C₄), R₄ is hydrogen, OH or alkyl (C₁-C₄), R₅ is hydrogen or OH or alkyl (C₁-C₄), R₆ is hydrogen or OH, m is any number from 0 to 30, n is any number from 0 to 30, provided that (m+n) is neither Zero nor atmost more than 30 and there being not

more than two 'OH' group in all in said diol, by subjecting one or more appropriate aliphatic acid containing from 4 to 36 carbon atoms or acid halide to esterification reaction using the required diol, optionally in the presence of a conventional esterification catalyst, converting the diol ester thus obtained into a concentrate which concentrate optionally is diluted in known manner with known diluents.

Complete Specification 34 Pages, Drawing 1 Sheet.

Provisional Specification 13 Pages, Drawings 9 Sheets.



IND. CL. : 62A.

159970

Int. Cl. D061—1, 12.

METHOD FOR PREPARING FABRIC SOFTENING COMPOSITIONS.

Applicants : HINDUSTAN LEVER LTD., HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, BOMBAY-400020, MAHARASHTRA, INDIA.

Inventors : 1. ROBERT MICHAEL BUTTERWORTH & 2. MARTIN ALAN WELLS.

Application No. 92/BOM/1984 filed April 4, 1984, U.K. priority date 8th April, 1983 (83 09663/83).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

8 Claims

A process for preparing an improved concentrated aqueous liquid fabric softening composition containing from 8% to 40% by weight water-insoluble cationic fabric softener, 1% to 9% by weight anionic material, having an HLB of not more than 10 and selected from :

- (i) C_8 - C_{24} fatty acids;
- (ii) esters of C_8 - C_{24} fatty acids monohydric alcohols containing from 1-3 carbon atoms;
- (iii) C_{10} - C_{18} fatty alcohols; and
- (iv) lanolin and derivatives thereof, and 0.001% to 0.3% by weight of electrolyte material said process comprising the steps of :
 - (a) forming a molten mixture from the water insoluble cationic fabric softener and the nonionic material;
 - (b) adding the molten mixture to water at an elevated temperature preferably above 40°C;
 - (c) mixing the molten mixture and the water together to form a dispersion of the molten mixture in droplet form in the water; and
 - (d) adding electrolyte in the form of a source of lithium, sodium, potassium, calcium, magnesium or aluminium ions thereto, after, but not before, the formation of said dispersion, in hot or cold condition.

Comp. Specn. 22 pages.

Drg. 1 sheet.

IND. CL. : 32 E.

159971

Int. Cl. : CO 8 f 27/02.

PROCESS FOR THE PREPARATION OF IMPROVED MACROPOROUS ANION EXCHANGERS.

Applicant : ION EXCHANGE (INDIA) LIMITED, AN INDIAN COMPANY, OF TIECICON HOUSE, DR. E. MOSES ROAD, BOMBAY-400011, MAHARASHTRA, INDIA.

Inventors : SHRINIVAS VINAYAK VAIDYA, DATTATRAYA MAHADEO DESHPANDE, VIJAY SHRIPAD KAMAT.

Application No. 104/BOM/84 filed April 9, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

18 Claims

1. A process for the preparation of an improved macroporous anion exchanger capable of performing a variety of functions, which comprises adding to an aqueous medium a conventional stabilizer and a conventional electrolyte, agitating the mixture so formed to homogeneity, adding to said homogenous mixture a non-aqueous organic solvent or a non-ionic surfactant of the kind such as herein described, a free radical initiator of the kind such as herein described and a homogenous monomer phase consisting of a monoethylenically unsaturated monomer of the kind such as herein described and a polyethylenically unsaturated monomer of the kind such as herein described, agitating the mass thus formed to homogeneity, subjecting the agitated mass to polymerisation in which said polyethylenically unsaturated monomer acts as cross-linking agent, removing the solvent or surfactant in any conventional manner and recovering in any known way the copolymer thus prepared in the form of porous beads or droplets, adding to a mixture of formaldehyde and methanol pre-determined amount of chlorosulphonic acid thereby producing *in situ* chloromethylmethyl ether; introducing the recovered crosslinked copolymer beads into said chloromethylmethyl ether in order of chloromethylate said copolymer, recovering the chloromethylated copolymer and subjecting it to amination at a temperature in the range of from 30°C to 90°C, characterised in that said polyethylenically unsaturated monomer is present in not more than 8% by volume of said homogenous mixture.

Complete specn. 25 pages.

Drawing : Nil.

IND. CL. : 32 A₁ + A₂.

159972

Int. Cl. : CO9b-62/02, 62/04.

A PROCESS FOR THE PREPARATION OF REACTIVE DYE HAVING ATLEAST TWO REACTIVE SYSTEMS.

Applicants : JAYSYNTH DYECHEM PVT. LTD., E-16, "EVEREST" TARDEO ROAD, BOMBAY-400034, MAHARASHTRA, INDIA.

Inventor : DR. SHRIKANT HARI GOLE.

Application No. 113/BOM/1984 filed Apr. 12, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

2. Claims

A process for the preparation of a reactive dye having at least two reactive systems and being of the formula D_1-T'' , wherein D_1 is a chromophore such as herein described or an intermediate chromophore such as herein described, T' is a cyclic azine reactive system containing halogen atom(s) such as herein described and T'' is 4 (B-sulfatoethyl sulfonyl) aniline or its derivative such as herein described, said process comprising condensing a chromophore such as herein described or an intermediate chromophore such as herein described with a cyclic azine reactive system containing halogen atom(s) such as herein described at a temperature between

O° C-15°C and pH between 6.5-7.5 in an aqueous acetone medium, runner condensing the resulting reactive dye or reactive intermediate with 4(B-sulfatoethyl sulfonyl) aniline or its derivative such as herein described at a temperature between 0°C-55°C and pH between 5-7.5 in an aqueous medium, establishing the resulting reactive dye with a buffer such as herein described, if required, precipitating the reactive dye with an alkali metal salt such as herein described, filtering the reactive dye and drying the reactive dye at a temperature between 50°C-70°C.

Comp. Specn. 26 pages.

Drawings 2 sheets.

Ind. Cl. 131B₂.

159973

Int. Cl. E21b-1/06, E21c-3/00.

AN ELECTRIC PERCUSSIVE DRILLING MACHINE FOR BOREHOLES.

Applicant & Inventor: NIRMAL PANNALAI, C/o PANNALAI METAL INDUSTRIES, BADORA, BETUL, MADHYA PRADESH.

Application No. 115/Bom/1984 filed April 16, 1984.
Comp.: After Prov. filed on July 16, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

4 Claims

An Electric Percussive drilling machine for boreholes, having a wheel mounted chassis, a collapsible mast-unit mounted on said chassis, a cradle, vertically traversible along said mast unit, said cradle forming a platform for mounting thereon hereinafter mentioned electrically driven components, said electric percussive drilling machine further comprising and characterised by a combination of an engine driven electricity generator providing electricity to herein described electrically driven components, an electric percussive means preferably a solenoid receiving electricity through a motor-driven variable-electric —make and break contact means for regulating oscillations of plunger of said solenoid, said oscillations of said plunger being transmitted to a cylindrical hollow drilling bit through a string of removably interconnected tubular drilling rods, an electrically driven rotation-unit providing regulated rotations to said plunger of said solenoid, said rotation-unit being a gear drive means in conjunction with a motor driven variable-speed-drive means, a drive-gear means at output end of said variable-speed drive means drives a driven-gear means, hub portion of said driven-gear means is provided with internal splines meshing with corresponding external splines of said plunger of said solenoid, said splines loosely engaging said driven-gear means with said plunger of said solenoid, said driven-gear means being retained in position by an upper and lower sleeve means, an electrically driven jet pump providing a continuous stream of high-pressure water circulating from said borehole wherefrom rock particles and silt are flushed by said stream of water, a hollow slotted cylindrical receptacle attached towards upper end of said hollow cylindrical drilling bit by known fastening means receives heavier rock chips therein, all of hereinbefore mentioned electrically driven components mounted on said cradle, an electrically driven winch means providing vertical traverse to said cradle for drilling and lowering said hollow cylindrical drilling bit, said drilling rods into and out of borehole.

Comp. Specn. 11 pages.

Drg. 4 sheets.

Prov. Specn. 6 pages.

Drg. 1 sheet.

IND. CL. : 170 D.

159974

Int. Cl. C 11 d 1/02, 3/04.

FOAMING AQUEOUS LIQUID DETERGENT COMPOSITIONS.

Applicants: HINDUSTAN LEVER LTD., HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, BOMBAY-400020, MAHARASHTRA, INDIA.

Inventors: (1) ROBERT JAMES EDWARDS, (2) PAUL DAVID HARDMAN.

Application No. 122/Bom/1984 filed April 25, 1984.
U.K. priority date 29th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

19 Claims

A foaming aqueous liquid detergent composition having a viscosity in the range of 60 to 2000 cp at 25°C, as measured at a shear rate of 26.5 s⁻¹, which comprises

- (a) from 2% to 60% by weight of an active detergent system comprising a water-soluble salt of a dialkyl ester of sulphosuccinic acid in which the alkyl groups may be the same or different, optionally together with other detergent material such as herein described, said salt constituting at least 2% by weight of the whole composition, and from 0.025 to 5% by weight of a water-soluble polymer selected from
 - (i) polysaccharides having hydrophilic substituents,
 - (ii) xanthan gums, and
 - (iii) synthetic polymers carrying carboxyl substituents in salt or amide form,

said composition being free of quaternary ammonium salts containing C₁₂-C₁₈ aliphatic radicals.

Complete Specn. 33 pages.

Drg. Nil

Ind. Cl. 136 C.

159975

Int. Cl. B-29 F, —3/00.

DEVICE FOR EXTRUDING FLOWABLE SUBSTANCES.

Applicant: SANTRADE LIMITED, A COMPANY INCORPORATED UNDER THE SWISS LAWS, ALPENQUAI 12, 6002 LUZERN, SWITZERLAND.

Inventor: REINHARD FROESCHKE.

Application No. 123/Bom/84 filed on April 26, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

11 Claims

1. Device for extruding flowable substances from two cylindrical containers, of which the first is provided with openings on its periphery and is rotatable about the outer wall of a cylindrical inner container to which the substance to be extruded is axially fed and forced through a downwardly directed row of openings which, with the relative rotation of the two cylindrical containers, coincide cyclically with the openings of the outer container, falls in the form of drops onto a conveyor or colling belt, arranged below it, and solidifies or gelatinizes there, characterized in that the row of openings (24) is provided in a nozzle bar (25, 25a, 25b) which can be attached to the periphery of the inner container (3).

Com. Specn. 13 pages.

Drg. 5 sheets.

CANCELLATION PROCEEDINGS SECTION 51A

An application made by Elmech Industries for cancellation of the Registration of the Design No. 156997 in the Class 1 in the name of Automatic Instruments Company.

PATENTS SEALED

157710	157712	157713	157725	157731	157738	157761
157762	157813	157819	117923	117825	157830	157835
157837	157839	157852	157896	157897	157898	157899
157901	157906	157914	157915	157921	157924	157925
157926	157927	157928	157929	157932	157942	157945

157946 157951 157952 157953 157957 157960 157961
157962 157963 157964

AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Siemens Aktiengesellschaft, a company of Berlin and Munich, West Germany, have made an application Under Section 57 of the patents Act, 1970 for amendment of specification of their patent Application No. 152031 for "An electrical Switchgear assembly." The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700 017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the patent Office, Calcutta. If the written Statement of opposition is not filed with the notice of opposition it shall left within one month from the date of filing the said notice.

REGISTRATION OF ASSIGNMENTS, LICENCES ETC. (PATENTS)

Assignments, Licences or other transactions effecting the interests of the original patents have been registered in the following cases. The number of each case is followed by the names of the parties claiming interest.

138312
139834
141060
138360
144711
144888
142780
145702
143508
145313
145274
147282
150912

Larson & Toubro Limited.

(1)

In pursuance of an application, dated 21st November, 1985 National Research Development Corporation of India has been registered as proprietors by virtue of an assignment deed dated 10th January, 1985 and made between Council of Scientific & Industrial Research of the one part and National Research Development Corporation of India of other part in respect of Patent No. 138310.

(2)

In pursuance of an application, dated 21st November, 1985 National Research Development Corporation of India has been registered as proprietors by virtue of an assignment deed dated 3rd December, 1984 and made between Council of Scientific & Industrial Research of the one part and National Research Development Corporation of India of other part in respect of Patent No. 144000.

(3)

In pursuance of an application, dated 20th November, 1985 National Research Development Corporation of India has been registered as proprietors by virtue of an assignment deed dated 3rd December, 1984 and made between

Council of Scientific & Industrial Research of the one part and National Research Development Corporation of India of other part in respect of Patent No. 140791.

(4)

In pursuance of an application, dated 21st November, 1985 National Research Development Corporation of India has been registered as proprietors by virtue of an assignment deed dated 28th January, 1985 and made between Council of Scientific & Industrial Research of the one part and National Research Development Corporation of India of other part in respect of Patent No. 145046.

(5)

In pursuance of an application received on 31st October, 1986 National Research Development Corporation of India has been registered as proprietors by virtue of an assignment deed dated 9th September, 1983 and made between Council of Scientific & Industrial Research of the one part and National Research Development Corporation of India of other part in respect of Patent No. 145250.

(6)

In pursuance of an application, dated 21st November, 1985 National Research Development Corporation of India has been registered as proprietors by virtue of an assignment deed dated 11th February, 1985 and made between Council of Scientific & Industrial Research of the one part and National Research Development Corporation of India of other part in respect of Patent No. 145304.

(7)

In pursuance of an application, dated 21st November, 1985 National Research Development Corporation of India has been registered as proprietors by virtue of an assignment deed dated 11th February, 1985 and made between Council of Scientific & Industrial Research of the one part and National Research Development Corporation of India of other part in respect of Patent No. 145681.

(8)

In pursuance of an application dated 22nd August, 1986 National Research Development Corporation of India has been registered as proprietors by virtue of an assignment deed dated 21st April 1986, and made between Council of Scientific & Industrial Research of the one part and National Research Development Corporation of India of other part in respect of Patent No. 150816.

(9)

In pursuance of an application, dated 21st November, 1985 National Research Development Corporation of India has been registered as proprietors by virtue of an assignment deed dated 11th February, 1985 and made between Council of Scientific & Industrial Research of the one part and National Research Development Corporation of India of other part in respect of Patent No. 151691.

RENEWAL FEES PAID

140206	141233	141250	141303	142032	142388	143061
143173	143294	143295	143316	143360	143470	143730
143765	143820	143829	144208	144577	144621	144639
144725	144768	144824	144825	145211	145217	145677
146292	146305	146320	146324	146609	146786	146897
147277	147475	147969	148214	148220	148400	148415
148539	148562	148649	148664	148734	148925	149003
149005	149412	149621	149786	149819	149939	150116
150132	150304	150486	150523	150531	150533	150575

150693	150816	150829	150842	150914	151036	151042
151101	151102	151153	151154	151163	151184	151302
151394	151419	151423	151470	151671	151692	151694
151722	151930	151970	152009	152039	152068	152285
152350	152486	152734	152892	153067	153301	153523
153573	153591	153637	153655	153763	153828	153963
153982	153983	153986	154001	154002	154127	154163
154282	154299	154302	154432	154646	154660	154753
154893	154908	154910	155298	155430	155445	155451
155538	155719	155739	155757	155786	155787	155808
155809	155812	155860	155861	155879	155880	155891
155916	155917	155918	155972	156000	156028	156117
156118	156126	156127	156128	156415	156557	156607
156686	156741	156750	156755	156765	156837	156845
156846	156850	156876	156884	156887	156939	156940
156946	156975	156982	156986	157121	157179	157340
157352	157353	157518	157557	157596	157610	157632
157658	157660	157663	157687	157688		

CESSATION OF PATENTS

139350	139351	139352	139353	139355	139358	139362
139363	139366	139367	139368	139369	139371	139375
139376	139377	139378	139379	139380	139382	139386
139390	139391	139393	139394	139395	139396	139397
139398	139399	139402	139403	139404	139406	139407
139408	139409	139410	139412	139413	139416	139419
139420	139421	139422	139423			

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 157505, Niky Tasha India Pvt. Ltd., E 1 & 2 Mahajan House, NDSE, New Delhi, India, an Indian Company. "A Cooking Appliance". 6th October, 1986.

Class. 1. Nos. 157648, 157649, Ashok Jayantilal Mehta, Indian National of 301 Philomena-Apartments, Plot No. 8, Juhu Road, Bombay-400 049, Maharashtra State, India. "NUT". 27th November, 1986.

Class. 1. No. 157650, Ashok Jayantilal Mehta, Indian National, of 301 Philomena Apartment Plot No. 8, Juhu Road, Bombay-400 049, Maharashtra State, India, "Metallic Channel Section". 7th November, 1986.

Class. 3. Nos. 157626, 157627, Avvari Ranga Swamy, a citizen of the United States of America, residing at the City of Littleton, State of North Carolina, whose post Office address is Post Office Box 426, Littleton North Carolina 27850, United States of America, a "Double Spout Container". 5th November, 1986.

Class. 3. Nos. 157631, 157632, 157633, 157634, 157635, Hawkins Cookers Limited, F-101 Maker Towers, P.O. Box 16083, Cuffe Parade, Bombay-400005, Maharashtra, India, an Indian Company. "Handles of Pressure Cookers". 6th November, 1986.

Class. 3. No. 157714, Interlego A/S, a Danish Company, of Aastvej 1, DK-7190 Billund, Denmark. "a Toy Cross Track Element". 26th November, 1986.

Class. 3. No. 157785, Sujata Nandkumar Deshmukh, an Indian residing at 33-C, Silver Sea Apartments, Juhu Tara Road, Santacruz, Bombay 400 049, in the State of Maharashtra, India. "Bottle". 17th December, 1986.

Class. 3. No. 157891, Bluplast Corporation, Hakoba Industrial Estate, 2nd floor, I. B. Patel Road, Goregaon East, Bombay-400063, Maharashtra, India, an Indian Partnership Firm. "Mug". 19th January, 1987.

Extn. of Copyright of the Second Period of five years
No. 150653. Class-1.

Nos. 151791, 151793, 151795, 151796, 151797, 151798, 151799. Class-3.

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R. A. ACHARYA
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